

Result No.	Score	Query Match	Length	DB	ID	Description	
1	274.5	28.6	3080	6	5223423-4	Patent No. 5223423	
2	270.5	28.2	1055	2	US-08-659-251-5	Sequence 5, Appli	
3	270.5	28.2	1055	3	US-09-256-490-5	Sequence 5, Appli	
4	270.5	28.2	1055	5	PCR-US96-11445-5	Sequence 5, Appli	
5	238.5	24.9	1150	3	US-09-238-303-9	Sequence 9, Appli	
6	238.5	24.9	1150	4	US-09-946-239-9	Sequence 9, Appli	
7	238	24.8	917	4	US-08-259-451-11	Sequence 11, Appli	
8	237.5	24.8	314	1	US-08-589-446-6	Sequence 6, Appli	
9	237.5	24.8	314	1	US-08-444-882-6	Sequence 6, Appli	
10	237.5	24.8	314	2	US-08-389-455A-6	Sequence 6, Appli	
11	237.5	24.8	314	3	US-08-987-867A-6	Sequence 6, Appli	
12	237.5	24.8	562	3	US-09-117-217-14	Sequence 14, Appli	
13	237.5	24.8	562	4	US-09-735-487-14	Sequence 14, Appli	
14	237.5	24.8	913	2	US-07-743-357-22	Sequence 22, Appli	
15	237.5	24.8	1005	2	US-07-743-357-1	Sequence 1, Appli	
16	237.5	24.8	1014	4	US-09-319-588C-6	Sequence 6, Appli	
17	237.5	24.8	1016	2	US-07-743-357-4	Sequence 4, Appli	
18	237.5	24.8	1016	2	US-07-743-357-5	Sequence 5, Appli	
19	237.5	24.8	1016	4	US-09-625-972-24	Sequence 24, Appli	
20	236.5	24.7	560	4	US-09-752-653-1	Sequence 1, Appli	
21	234.5	24.5	427	4	US-09-690-265-1	Sequence 1, Appli	
22	234.5	24.5	1003	2	US-07-743-357-9	Sequence 9, Appli	
23	234.5	24.5	1015	3	US-08-463-210-9	Sequence 9, Appli	
24	234.5	24.5	1015	3	US-09-124-900-3	Sequence 3, Appli	
25	234.5	24.5	1015	4	US-08-463-028-9	Sequence 9, Appli	
26	234.5	24.5	1016	2	US-07-743-357-2	Sequence 2, Appli	
27	233.5	24.3	1018	4	US-09-206-551-46	Sequence 46, Appli	

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/256,490
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: US/08/659,251
; FILING DATE:
; APPLICATION NUMBER: 08/659,251
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 02307E-056410US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0300
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1055 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..1055
; OTHER INFORMATION: /note= "pol protein encoded by HIV-2KR"
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US-08-659-251-5
;
Query Match 28.2%; Score 270.5; DB 2; Length 1055;
Best Local Similarity 36.3%; Pred. No. 3.5e-24;
Matches 66; Conservative 32; Mismatches 75; Indels 9; Gaps 4;
;
QY 1 FTIPLAQDCCKEFAFTIPAINNKEPATRFQWKVLPQGLNSPTICOTFVGRALQPVDRKF 60
;
Db 319 FSIPLHEDFRQYTAFTLPTVNNAPGKRYIKVLPQGWKGSFALFOHTMRQVLEPFRKAN 378
;
QY 61 SDCVIIHFFDILCAAEKDKLIDCYTFLPAEVANA-GLAIASDKIQTSTPFFHYLGMQIE 119
;
Db 379 PDVILVQMDILIASDRTDLEHDTVLQKELLGLGFSFDEKFKQDPPYKMWGYELW 438
;
QY 120 NRKIKPKQIEKTKTLTNDFOKLLGDIW---IRPTLGIPTYAMSNLFSILRGSDSLN 176
;
Db 439 PTKWKLQIQLPQKEVWTVNDIQKLVGLNWAQIYP--GIKT---KHLCLRLIRGKMTLT 493
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QY 177 SK 178
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Db 494 EE 495
;
RESULT 3
PCT-US96-490-5
; Sequence 5, Application US/09256490
; Patent No. 6235881
; GENERAL INFORMATION:
; APPLICANT: Kraus, Guenter
; APPLICANT: Wong-Staal, Flossie
; APPLICANT: Talbott, Randy
; APPLICANT: Poeschla, Eric
; TITLE OF INVENTION: Isolation of No. 6235881el HIV-2 Proviruses
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
;
US-09-256-490-5
; Sequence 5, Application US/09256490
; Patent No. 6235881
; GENERAL INFORMATION:
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Isolation of Novel HIV-2 Proviruses
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Robbins, Berliner & Carson
; STREET: 201 N. Figueroa Street, 5th Floor
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90012-2628
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/11445
; FILING DATE:
;
PCT-US96-11445-5
; Sequence 5, Application PC/TUS9611445
; GENERAL INFORMATION:
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Isolation of Novel HIV-2 Proviruses
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Robbins, Berliner & Carson
; STREET: 201 N. Figueroa Street, 5th Floor
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90012-2628
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/11445
; FILING DATE:
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/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Berliner, Robert
/ REGISTRATION NUMBER: 20,121
/ REFERENCE/DOCKET NUMBER: 5555-399C1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (213) 977-1001
/ TELEFAX: (213) 977-1003
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1055 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ NAME/KEY: 1..1055
/ LOCATION: 1..1055
/ OTHER INFORMATION: /note= "pol protein encoded by HIV-2KR"
PCT-US96-11445-5

Query Match 28.2%; Score 270.5; DB 5; Length 1055;
Best Local Similarity 36.3%; Pred. No. 3.5e-24;
Matches 66; Conservative 32; Mismatches 75; Indels 9; Gaps 4;

QY 1 FTIPLAEQDCCKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60
DB 319 FSIPLHEDFRQYTAFTLPTVNNAEPKRYIYKVLPGWKGSFAIFQHTMRQVLBPFRKAN 378

QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 379 PDVILVQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKLEQPPYKWMGY 438

QY 120 NRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTIGLIGPTIYAMSNLFSILRGSDSLN 176
DB 439 PTKWKLQKIQLPQKQKQVWTVNDIQKLVGLNWAQIYP--GIXT---KHLCLRLIRKMTLT 493

QY 177 SK 178
DB 494 EE 495

RESULT 5
US-09-238-303-9
; Sequence 9, Application US/09238303B
; Patent No. 6284253
; GENERAL INFORMATION:
; APPLICANT: Barr, Margaret C.
; TITLE OF INVENTION: No. 6284253el Feline Immunodeficiency Virus Nucleotide Sequence
; FILE REFERENCE: 18617.0059
; CURRENT APPLICATION NUMBER: US/09/238,303B
; CURRENT FILING DATE: 1999-01-28
; EARLIER APPLICATION NUMBER: US 60/072,927
; EARLIER FILING DATE: 1998-01-29
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1150
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: protein encoded by the pol gene of a recombinant viral
; OTHER INFORMATION: clone constructed from the genomic DNA of a Pallas's cat feline
; OTHER INFORMATION: immunodeficiency virus
US-09-238-303-9

Query Match 24.9%; Score 238.5; DB 3; Length 1150;
Best Local Similarity 33.3%; Pred. No. 3.7e-20;
Matches 62; Conservative 30; Mismatches 85; Indels 9; Gaps 3;

QY 1 FTIPLAEQDCCKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60
DB 296 FTIPLDPDYAPYTAFTLTKINNSGPGERFVWGLPQGVLSPLIYQSTLNNILKPFREQH 355

QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 356 PEIDLQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKLEQPPYKWMGY 412

QY 117 QIENRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTIGLIGPTIYAMSNLFSILRGSDSLN 176
DB 413 ELYPRKWTIQTRELIIPEEPTLNELOKLVGINWSSQI--IPGLRIKALTNMMKGNQALD 470

QY 177 SKRMLT 182
DB 471 SKRWT 476

RESULT 7
US-08-259-451-11
; Sequence 11, Application US/08259451
; Patent No. 6408841
; GENERAL INFORMATION:
; APPLICANT: Lee, Helen H.
; APPLICANT: Swanson, Priscilla A.
; APPLICANT: Idler, Kenneth B.
; APPLICANT: Rosenblatt, Joseph D.
; APPLICANT: Chen, Irvin S. Y.
; APPLICANT: Golde, David W.
; APPLICANT: Robertson, Eugene F.
; APPLICANT: Stephens, John E.
; APPLICANT: Chan, Emerson W.
; APPLICANT: Buytendorp, Mark H.
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QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 356 PEIDLQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKLEQPPYKWMGY 412

QY 117 QIENRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTIGLIGPTIYAMSNLFSILRGSDSLN 176
DB 413 ELYPRKWTIQTRELIIPEEPTLNELOKLVGINWSSQI--IPGLRIKALTNMMKGNQALD 470

QY 177 SKRMLT 182
DB 471 SKRWT 476

RESULT 6
US-09-946-239-9
; Sequence 9, Application US/09946239
; Patent No. 6579527
; GENERAL INFORMATION:
; APPLICANT: Barr, Margaret C.
; TITLE OF INVENTION: No. 6579527el Feline Immunodeficiency Virus Nucleotide and
; TITLE OF INVENTION: Polypeptide Sequences
; FILE REFERENCE: 18617.0059
; CURRENT APPLICATION NUMBER: US/09/946,239
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: US 09/238,303, US 60/072,927
; PRIOR FILING DATE: 1999-01-28, 1998-01-29
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1150
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: protein encoded by the pol gene of a recombinant viral
; OTHER INFORMATION: clone constructed from the genomic DNA of a Pallas's cat feline
; OTHER INFORMATION: immunodeficiency virus
US-09-946-239-9

Query Match 24.9%; Score 238.5; DB 4; Length 1150;
Best Local Similarity 33.3%; Pred. No. 3.7e-20;
Matches 62; Conservative 30; Mismatches 85; Indels 9; Gaps 3;

QY 1 FTIPLAEQDCCKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60
DB 296 FTIPLDPDYAPYTAFTLTKINNSGPGERFVWGLPQGVLSPLIYQSTLNNILKPFREQH 355

QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 356 PEIDLQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKLEQPPYKWMGY 412

QY 117 QIENRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTIGLIGPTIYAMSNLFSILRGSDSLN 176
DB 413 ELYPRKWTIQTRELIIPEEPTLNELOKLVGINWSSQI--IPGLRIKALTNMMKGNQALD 470

QY 177 SKRMLT 182
DB 471 SKRWT 476

RESULT 7
US-08-259-451-11
; Sequence 11, Application US/08259451
; Patent No. 6408841
; GENERAL INFORMATION:
; APPLICANT: Lee, Helen H.
; APPLICANT: Swanson, Priscilla A.
; APPLICANT: Idler, Kenneth B.
; APPLICANT: Rosenblatt, Joseph D.
; APPLICANT: Chen, Irvin S. Y.
; APPLICANT: Golde, David W.
; APPLICANT: Robertson, Eugene F.
; APPLICANT: Stephens, John E.
; APPLICANT: Chan, Emerson W.
; APPLICANT: Buytendorp, Mark H.
```

APPLICANT: Johnson, Joan E.  
 APPLICANT: Motley, Cheryl T.  
 APPLICANT: Peterson, Bryan  
 APPLICANT: Edwards, Michelle  
 APPLICANT: Guidinger, Peggy  
 APPLICANT: Tate, Cynthia  
 TITLE OF INVENTION: HTLV-1/INRA Compositions  
 TITLE OF INVENTION: and Assays for Detecting HTLV Infection  
 NUMBER OF SEQUENCES: 19  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Abbott Laboratories  
 STREET: One Abbott Park Road  
 CITY: Abbott Park  
 STATE: Illinois  
 COUNTRY: USA  
 ZIP: 60064

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb  
 MEDIUM TYPE: storage

COMPUTER: IBM

OPERATING SYSTEM: MS-DOS

SOFTWARE: WordPerfect 5.1

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/259,451

FILING DATE: 20-JUN-1994

CLASSIFICATION: 436

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/086,415

FILING DATE: 01-JUL-1993

ATTORNEY/AGENT INFORMATION:

NAME: Daniel W. Collins

REGISTRATION NUMBER: 31,912

REFERENCE/DOCKET NUMBER: 5381.US.P1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (708) 937-6365

TELEFAX: (708) 938-2623

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 917 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

US-08-259-451-11

Query Match 24.8%; Score 238; DB 4; Length 917;

Best Local Similarity 35.4%; Pred. No. 3e-20;

Matches 63; Conservative 22; Mismatches 87; Indels 6; Gaps 3;

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DB 140 FQIPLPKQFQYFAFTIPQCNVPGTRYANTVLPQGFKNSTPLFEQQLAAVLPNPKMF 199

QY 61 SDCVIHHYFDLILCAETKDKLIDCYTFLPAEVANAGLAIASDKIQ-TSTPHYLGMQTE 119

DB 200 PTSTIVQYMDILLASPTNKLQQLSOLTLQALTTGLPISQKQRTQRTGQIRFLGQVIS 259

QY 120 NRKIKPKQ---IEKDKTLTANDFOKLGDINWIRPTLGIPTVAMSNLFSILRGDSD 174

DB 260 PNHTYESTPAIPKQW--TLTELQVILGEIQWVSKGTFILRKLQSLYSALHGVRD 315

RESULT 8

US-08-589-446-6

Sequence 6, Application US/08589446

Patent No. 5614413

GENERAL INFORMATION:

APPLICANT: Morrow, Casey D.

TITLE OF INVENTION: ENCAPSIDATED POLIOVIRUS NUCLEIC

TITLE OF INVENTION: ACID AND METHODS OF MAKING AND

TITLE OF INVENTION: USING SAME

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/589,446

FILING DATE:

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/087,009

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Geary III, William C.

REGISTRATION NUMBER: 31,359

REFERENCE/DOCKET NUMBER: UAG-004

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 314 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-589-446-6

Query Match 24.8%; Score 237.5; DB 1; Length 314;

Best Local Similarity 33.0%; Pred. No. 7e-21;

Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

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DB 94 FSVPL-DEDFRKYTAFTIPSNINNETPGIRYQYVLPQGWKSPAIQSSMTKLEPRKQ 152

QY 60 FSDCYIHHYFDLILCAET-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTPHYL 114

DB 153 NPDIIVYQYMDLLVYVSDLEIGQHTKIEE---LRQHLRWGLTTPDKKHQKEPPFLWM 208

QY 115 GWOIENRKIKPKQKIEIRKDKTLKTLNDFOKLGDINWIRPTLGIPTVAMSNLFSILRGDSD 174

DB 209 GYELHPDKWTVPQIVLPEKOSWTVDIQKLVGKLNWASQI--YPGIKVRQLCKLLRGTKA 266

QY 175 LNSKRLMT 182

DB 267 LTEVIPLT 274

RESULT 9

US-08-444-882-6

Sequence 6, Application US/08444882

Patent No. 5622705

GENERAL INFORMATION:

APPLICANT: Morrow, Casey D.

TITLE OF INVENTION: ENCAPSIDATED POLIOVIRUS NUCLEIC

TITLE OF INVENTION: ACID AND METHODS OF MAKING AND

TITLE OF INVENTION: USING SAME

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

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1  FILING DATE: 01-JUL-1993
2  CLASSIFICATION: 435
3  ATTORNEY/AGENT INFORMATION:
4  NAME: Silveri, Jean M.
5  REGISTRATION NUMBER: 39,030
6  REFERENCE/DOCKET NUMBER: UAG-004CP
7  TELECOMMUNICATION INFORMATION:
8  TELEPHONE: (617) 227-7400
9  TELEFAX: (617) 227-5941
10 INFORMATION FOR SEQ ID NO: 6:
11 SEQUENCE CHARACTERISTICS:
12 LENGTH: 314 amino acids
13 TYPE: amino acid
14 TOPOLOGY: linear
15 MOLECULE TYPE: protein
16 US-08-389-459A-6
17
18 Query Match 24.8%; Score 237.5; DB 2; Length 314;
19 Best Local Similarity 33.0%; Pred. No. 7e-21;
20 Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;
21
22 QY 1 FTPIAEQDCEXF-AFTTAINNKEPATRFQWKVLPQGMNLSPTTCQTFVGRALQPVROK 59
23 DB 94 FSVPL-DEDFRYKTAFTIPSINNFTGIRYQNVLPQGWKSGPAIFQSSMTKILEPFRKQ 152
24 QY 60 FSDCVIIHFDDILCAAET-----KDKLIDCYTFLPAEVANAGLAIASDKIQTSFTFHYL 114
25 DB 153 NPDIIVIQYMDLLVYGSDELICQHTKIE-----LRQHLLRWGLTTPDKKHQKEPFLMW 208
26 QY 115 GMQIENRKIKPKIIRKDTLKTLDNFQKLGDINWIRPTLGIPTYAMNLSILRGDSD 174
27 DB 209 GYELHPDKWTQPIVLPERKDSWTVDIQKLVGLNWSAQI--YPGIKVRQLCKLLRGTKA 266
28 QY 175 LNSKRWLT 182
29 DB 267 LTEVIPLT 274
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31 RESULT 11
32 US-08-987-867A-6
33 Sequence 6, Application US/08987867A
34 Patent No. 6063384
35 GENERAL INFORMATION:
36 APPLICANT: C. Morrow et al.
37 TITLE OF INVENTION: ENCAPSATED RECOMBINANT VIRAL
38 TITLE OF INVENTION: NUCLEIC ACID AND METHODS OF MAKING AND
39 TITLE OF INVENTION: USING SAME
40 NUMBER OF SEQUENCES: 23
41 CORRESPONDENCE ADDRESS:
42 ADDRESSEE: LAHIVE & COCKFIELD
43 STREET: 28 STATE STREET
44 CITY: BOSTON
45 STATE: MASSACHUSETTS
46 COUNTRY: USA
47 ZIP: 02109
48 COMPUTER READABLE FORM:
49 MEDIUM TYPE: Floppy disk
50 COMPUTER: IBM PC compatible
51 OPERATING SYSTEM: PC-DOS/MS-DOS
52 SOFTWARE: ASCII
53 CURRENT APPLICATION DATA:
54 APPLICATION NUMBER: US/08/987,867A
55 FILING DATE: 09-DEC-1997
56 CLASSIFICATION: 424
57 PRIOR APPLICATION DATA:
58 APPLICATION NUMBER: US 08/087,009
59 FILING DATE: 01-JUL-1993
60 ATTORNEY/AGENT INFORMATION:
61 NAME: Myers, Louis
62 REGISTRATION NUMBER: 35,965
63 REFERENCE/DOCKET NUMBER: UAP-004CPDV
64 TELECOMMUNICATION INFORMATION:
65 TELEPHONE: (617) 227-7400

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; TELEFAX: (617) 742-4214
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 314 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-987-867A-6

Query Match      24.8%; Score 237.5; DB 3; Length 314;
Best Local Similarity 33.0%; Pred. No. 1.7e-20;
Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

QY 1 FTPLASQDCEKF-AFTIPAINKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRK 59
Db 94 FSVPL-DEDFRKYTAFTIPINNTPGIRYQYNVLPQGWKSPAIQSSWTKILEPFRKQ 152
QY 60 FSDCYIIHYFDDILCAAE-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTPFFHYL 114
Db 153 NPDIIVYQYMDLVGSDLEIGQHRTKIEB---LRQHLLRWGLTTPDKKHQKEPPLFW 208
QY 115 GMOIENKIKPKQIEIRKDTLKNDFQKLLGDNINWIRPTLGIPTYAMSNLFSILRGDSD 174
Db 209 GYELHPDKWTVPQIVLPKDSWTVDIQKLVGKLNWASQI--YPGIKVRQLCKLLRGTKA 266

QY 175 LNSKRLMT 182
Db 267 LTEVIPLT 274

RESULT 12
US-09-117-217-14
; Sequence 14, Application US/09117217
; Patent No. 6221578
; GENERAL INFORMATION:
; APPLICANT: de BETHUNE, Marie-Pierre
; APPLICANT: HERTOGS, Kurt
; APPLICANT: PAUWELS, Rudi
; TITLE OF INVENTION: METHOD OF MANAGING THE CHEMOTHERAPY OF PATIENTS WHO ARE
; TITLE OF INVENTION: HIV POSITIVE BASED ON THE PHENOTYPIC DRUG SENSITIVITY
; FILE REFERENCE: 1377-125P
; CURRENT APPLICATION NUMBER: US/09/117,217
; CURRENT FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 562
; TYPE: PRT
; ORGANISM: HIV-HXB2
US-09-117-217-14

Query Match      24.8%; Score 237.5; DB 3; Length 562;
Best Local Similarity 33.0%; Pred. No. 1.7e-20;
Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

QY 1 FTPLASQDCEKF-AFTIPAINKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRK 59
Db 116 FSVPL-DEDFRKYTAFTIPINNTPGIRYQYNVLPQGWKSPAIQSSWTKILEPFRKQ 174
QY 60 FSDCYIIHYFDDILCAAE-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTPFFHYL 114
Db 175 NPDIIVYQYMDLVGSDLEIGQHRTKIEB---LRQHLLRWGLTTPDKKHQKEPPLFW 230
QY 115 GMOIENKIKPKQIEIRKDTLKNDFQKLLGDNINWIRPTLGIPTYAMSNLFSILRGDSD 174
Db 231 GYELHPDKWTVPQIVLPKDSWTVDIQKLVGKLNWASQI--YPGIKVRQLCKLLRGTKA 288

QY 175 LNSKRLMT 182
Db 289 LTEVIPLT 296

RESULT 14
US-07-743-357-22
; Sequence 22, Application US/07743357
; Patent No. 585846
; GENERAL INFORMATION:
; APPLICANT: Kang, Yong C.
; TITLE OF INVENTION: Polypeptide having immunological
; TITLE OF INVENTION: activity for use as diagnostic reagent and/or vaccine
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: KIRBY EADES GALE BAKER
; STREET: Box 3432, Station D
; CITY: Ottawa
; STATE: Ontario
; COUNTRY: Canada
; ZIP: K1M 1H8
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/07/743,357
; FILING DATE: 21-AUG-1991
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/CA90/00062
; FILING DATE: 23-FEB-1990

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; REFERENCE/DOCKET NUMBER: 30924-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 237-6900
; TELEFAX: (613) 237-0045
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1005 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEetical: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Human immunodeficiency virus type 1
; STRAIN: HXB2
;
US-07-743-357-1

Query Match 24.8%; Score 237.5; DB 2; Length 1005;
Best Local Similarity 33.0%; Pred. No. 4e-20;
Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

Qy 1 FTPLAEQCEKE-AETIPAINNKKEPATFQWKVLPGQMLNSPTICQTFVGRALQPVURDK 59
Db 272 FSVPL-DEDFRKYATIPISINNETGIRYQYNVLPQGWKGSPIAQSSMTKILEFRKQ 330
Qy 60 FSDCYIIHYFDDILCAAE-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTSTPHYL 114
Db 331 NPDIVIVYQMDLLYVGSDELIGQHRTKIEE---LRQHLLRWGLTTPDKKHQKEPPFLWM 386
Qy 115 GWCIEENRKIKPKQIEIRKDTLTKLNDPQKLGGINWIRPTLGLPTVAMSNLFSILRGDSD 174
Db 387 GYELHDPKTVQPIVPEKDSWTVNDIQKLVLGKLNWASQI--YPGIKVROLCKLLRGTKA 444
Qy 175 LNSKRMLT 182
Db 445 LTEVIPLT 452

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Search completed: May 5, 2004, 15:55:10  
Job time : 15.1667 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

## OM protein - protein search, using sw model

Run on: May 5, 2004, 15:53:16 ; Search time 38.093 Seconds  
(without alignments)  
1324.350 Million cell updates/sec

Title: US-09-490-700-41

Perfect score: 959

Sequence: 1 FTPLAQDCEKFAFTIPAI.....SNLPSILRGSDLSNKRMLT 182

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1138120 seqs, 277189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

- 1: /cgn2\_6/prodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/prodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/prodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/prodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/prodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/prodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/prodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/prodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/prodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/prodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/prodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/prodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/prodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/prodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/prodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/prodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/prodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/prodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	506.5	52.8	117	14	US-10-029-386-31336
2	486.5	50.7	137	9	US-09-864-761-37766
3	464	48.4	1814	9	US-09-920-552-103
4	461	48.1	631	9	US-09-920-552-6
5	461	48.1	647	9	US-09-920-552-10
6	461	48.1	734	9	US-09-920-552-16
7	394	41.1	572	9	US-09-960-428-6
8	394	41.1	858	9	US-09-960-428-7
9	362	37.7	111	15	US-10-104-047-2742
10	343	35.8	108	9	US-09-764-877-1706
11	343	35.8	108	15	US-10-242-515-1706
12	284	29.6	603	9	US-09-864-761-36676
13	249	26.0	578	8	US-08-808-031A-30
14	239	24.9	263	8	US-08-808-031A-4
15	238.5	24.9	1150	9	US-09-946-239-9

16	238	24.8	82	9	US-09-864-761-45143	Sequence 45143, A
17	237.5	24.8	314	9	US-09-756-551A-6	Sequence 6, Appli
18	237.5	24.8	560	12	US-10-399-920-2	Sequence 2, Appli
19	237.5	24.8	560	14	US-10-205-641-1	Sequence 1, Appli
20	237.5	24.8	562	9	US-09-735-487-14	Sequence 14, Appli
21	237.5	24.8	562	14	US-10-342-188-14	Sequence 14, Appli
22	237.5	24.8	562	14	US-10-102-622-10	Sequence 10, Appli
23	237.5	24.8	850	10	US-09-952-060-2	Sequence 2, Appli
24	237.5	24.8	850	12	US-10-168-217A-2	Sequence 2, Appli
25	237.5	24.8	875	10	US-09-952-060-6	Sequence 6, Appli
26	237.5	24.8	875	12	US-10-168-217A-6	Sequence 6, Appli
27	237.5	24.8	1003	14	US-10-283-847-17	Sequence 17, Appli
28	237.5	24.8	1014	14	US-10-301-661A-6	Sequence 6, Appli
29	237.5	24.8	1016	14	US-10-364-360-24	Sequence 24, Appli
30	236.5	24.7	561	14	US-10-102-622-12	Sequence 12, Appli
31	236.5	24.7	995	12	US-10-296-734-1470	Sequence 1470, Ap
32	235.5	24.6	995	12	US-10-296-734-2	Sequence 2, Appli
33	235	24.5	191	9	US-09-920-552-51	Sequence 51, Appli
34	234.5	24.5	546	8	US-08-808-031A-29	Sequence 29, Appli
35	233.5	24.3	999	15	US-10-346-000A-3	Sequence 3, Appli
36	233.5	24.3	1018	14	US-10-369-294-46	Sequence 46, Appli
37	232.5	24.2	561	14	US-10-059-271-87	Sequence 87, Appli
38	230.5	24.0	1445	14	US-10-168-843A-32	Sequence 32, Appli
39	225.5	23.5	263	8	US-08-808-031A-3	Sequence 3, Appli
40	221.5	23.1	850	10	US-09-952-060-4	Sequence 4, Appli
41	221.5	23.1	850	12	US-10-168-217A-4	Sequence 4, Appli
42	221.5	23.1	875	10	US-09-952-060-8	Sequence 8, Appli
43	221.5	23.1	875	12	US-10-168-217A-8	Sequence 8, Appli
44	221.5	23.1	979	14	US-10-271-181B-118	Sequence 118, App
45	221.5	23.1	1350	10	US-09-952-060-35	Sequence 35, Appli

## ALIGNMENTS

## RESULT 1

US-10-029-386-31336  
; Sequence 31336, Application US/10029386  
; Publication No. US20030194704A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C  
; FILE REFERENCE: AEMICA-X-2  
; CURRENT APPLICATION NUMBER: US/10/029,386  
; NUMBER OF SEQ ID NOS: 34288  
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 31336  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AL023753.1  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.45  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.39  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.46  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.73  
; OTHER INFORMATION: SWISSPROT HIT: P10266, EVALUATE 5.00e-52  
US-10-029-386-31336

Query Match 52.8%; Score 506.5; DB 14; Length 117;  
Best Local Similarity 84.6%; Pred. No. 6.4e-49;  
Matches 99; Conservative 4; Mismatches 13; Indels 1; Gaps 1;  
QY 52 ALQVRKFSDCYIIHYFDILCAETKDKLIDCYTLPFAEVANAGLAISDKTQTTPF 111  
DB 2 ALQVRKFSDCYIIHYFDILCAETKDKLIDCYTLPFAEVANAGLAISDKTQTTPV 60  
QY 112 HYLQWQENRKKPKQKIEIRKDKTLKLNDFQKLGIDINWIRPTGIPTYAMNLSFI 168







## US-09-960-428-6

Query Match 41.1%; Score 394; DB 9; Length 572;  
Best Local Similarity 45.8%; Pred. No. 2.7e-35;  
Matches 82; Conservative 29; Mismatches 66; Indels 2; Gaps 2;  
QY 1 FTIPLAEQDCCKEFTAIIPAINNKSPATRFQKVLPOGLNSPTTCQTFVGRALQPVYDKF 60  
DB 113 FSIPLAEQDRFAFTLPSVNNQAPRRFQKVLPOGLNSPTTCQTFVGRALQPVYDKF 172  
QY 61 SDCVIIHFDILCAAEKDKLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIEN 120  
DB 173 PSRLMHLHYMDLLAASHDGLAAGEVISTLERAGFTISPKVQREPQGVLYGKLS 232  
QY 121 RKIKPQKIEKDKTLKLNDFQKLLGDNINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179  
DB 233 TYVAPVGL-VAEPRIATLMDVQKLVGSLQWLRLPALGIPPELMGPFYEQLRG-SDPN 289

## RESULT 8

US-09-960-428-7  
; Sequence 7, Application US/09960428  
; Patent No. US20020115147A1

; GENERAL INFORMATION:  
; APPLICANT: Roche Diagnostics GmbH  
; TITLE OF INVENTION: Method for producing an active heterodimeric AMV-RT in prokaryotic  
; FILE REFERENCE: 5272/00/  
; CURRENT APPLICATION NUMBER: US/09/960,428  
; CURRENT FILING DATE: 2001-09-21  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 858  
; TYPE: PRT  
; ORGANISM: Avian Myeloblastosis Virus  
US-09-960-428-7

Query Match 41.1%; Score 394; DB 9; Length 858;  
Best Local Similarity 45.8%; Pred. No. 4.8e-35;  
Matches 82; Conservative 29; Mismatches 66; Indels 2; Gaps 2;  
QY 1 FTIPLAEQDCCKEFTAIIPAINNKSPATRFQKVLPOGLNSPTTCQTFVGRALQPVYDKF 60  
DB 113 FSIPLAEQDRFAFTLPSVNNQAPRRFQKVLPOGLNSPTTCQTFVGRALQPVYDKF 172  
QY 61 SDCVIIHFDILCAAEKDKLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIEN 120  
DB 173 PSRLMHLHYMDLLAASHDGLAAGEVISTLERAGFTISPKVQREPQGVLYGKLS 232  
QY 121 RKIKPQKIEKDKTLKLNDFQKLLGDNINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179  
DB 233 TYVAPVGL-VAEPRIATLMDVQKLVGSLQWLRLPALGIPPELMGPFYEQLRG-SDPN 289

## RESULT 9

US-10-104-047-2742  
; Sequence 2742, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. US20030236392A1e1 full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 2742  
; LENGTH: 111  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-2742

Query Match 37.7%; Score 362; DB 15; Length 111;  
Best Local Similarity 64.5%; Pred. No. 1.1e-32;  
Matches 71; Conservative 11; Mismatches 28; Indels 0; Gaps 0;  
QY 70 DDLCAAEKDKLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIE 129  
DB 2 DDLCAAEKDKLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIE 61  
QY 130 IRKDKTLKLNDFQKLLGDNINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179  
DB 62 IHRNQLKTLKDKLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIE 111

## RESULT 10

US-09-764-877-1706  
; Sequence 1706, Application US/09764877  
; Patent No. US20020147140A1

; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC005  
; CURRENT APPLICATION NUMBER: US/09/764,877  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 4031  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 1706  
; LENGTH: 108  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-877-1706

Query Match 35.8%; Score 343; DB 9; Length 108;  
Best Local Similarity 66.7%; Pred. No. 1.5e-30;  
Matches 66; Conservative 14; Mismatches 19; Indels 0; Gaps 0;  
QY 81 KLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIEKDKTLKLN 140  
DB 6 KLIDCYTFPLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIEKDKTLKLN 65  
QY 141 FQKLLGDNINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179  
DB 66 FQKLLGDNINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 104

## RESULT 11

US-10-242-515-1706  
; Sequence 1706, Application US/10242515  
; Publication No. US20040009488A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC005C1  
; CURRENT APPLICATION NUMBER: US/10/242,515  
; CURRENT FILING DATE: 2002-09-13  
; PRIOR APPLICATION NUMBER: 09/764,877  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/214,886  
; PRIOR FILING DATE: 2000-06-28  
; PRIOR APPLICATION NUMBER: 60/217,487  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,758  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/220,963  
; PRIOR FILING DATE: 2000-07-26  
; PRIOR APPLICATION NUMBER: 60/217,496  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,447

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; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1706
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-242-515-1706

Query Match      35.8%   Score 343;   DB 15;   Length 108;
Best Local Similarity 66.7%;   Pred. No. 1.5e-30;
Matches 66;   Conservative 1;   Mismatches 19;   Indels 0;   Gaps 0;

Qy 81 KLIDCVTFPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPKQIRKDTLKTND 140
Db 6 KLNDICYQLNRCVTEAGLRQAQDKIQOTTPVQYLGWVDKQCIQPKQVQIRDSLKTND 65

Qy 141 FQKLLGDINWIRPTLGTPTTAMNLSILRGDSDLNSKR 179
Db 66 FQKLLGNINYLRTPLGTPTTSLNLSFMSLRLRGDSDLRSR 104

RESULT 12
US-09-864-761-36676
; Sequence 36676, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30

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; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 36676
; LENGTH: 603
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC006078.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN HEAT, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.7
; OTHER INFORMATION: EST HUMAN HIT: AW003247.1, EVALUATE 1.00e-115
; OTHER INFORMATION: SWISSPROT HIT: P10266, EVALUATE 0.00e+00
US-09-864-761-36676

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Query Match      29.6%   Score 284;   DB 9;   Length 603;
Best Local Similarity 90.3%;   Pred. No. 7.3e-23;
Matches 56;   Conservative 1;   Mismatches 5;   Indels 0;   Gaps 0;

Qy 121 RKIKPQKIEIRKDTLKTNDPQKLLGDIINWIRPTLGTPTTAMNLSILRGDSDLNSKR 180
Db 2 RKIKLQKIEIRKDTLKTNDPQKLLGDIINWIRPTLGTPTTAMNLSILRGDPDLNSKRI 61

Qy 181 LT 182
Db 62 PT 63

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RESULT 13
US-08-808-031A-30
; Sequence 30, Application US/08808031A
; Publication No. US20020048802A1
; GENERAL INFORMATION:
; APPLICANT: Incuys, Sumiko
; APPLICANT: Hsu, Mei-Yin
; APPLICANT: Eagle, Susan
; APPLICANT: Incuys, Masayori
; TITLE OF INVENTION: PROKARYOTIC REVERSE TRANSCRIPTASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WEISER & ASSOCIATES
; STREET: 230 South Fifteenth Street, Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,031A
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).5888P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:

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LENGTH: 578 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-808-031A-30

Query Match  
Best Local Similarity 26.0%; Score 249; DB 8; Length 578;  
Matches 67; Conservative 28; Mismatches 69; Indels 22; Gaps 7;

QY 1 FTPLAQDCEKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60  
Db 106 FOILPKQFOFYFAFTVQCCNYGPGTRYAKWVLPQGFKNSTPLFEMQLAHILQPIROAF 165

QY 61 SDCVIIHYFDDILCAAETKDKLIDCYTFLPAEVANAGLAIASDKI-QTSTPPHYLGMQIE 119  
Db 166 PQCTILQYMDILLASPSHEDLLLSSEATWASLISHGLPVSENKTQCTPTIKFLG-QI- 223

QY 120 NRKIKPKQIEIRKDTLKT-----LNDFOKLGDINWI 151  
Db 224 ---ISPNI--HLTYDAVPTPIRSRWALPELQALIGEIQWV 258

QY 169 LRQDSD 174  
Db 276 LQRHTD 281

RESULT 14  
US-08-808-031A-4  
Sequence 4, Application US/08808031A  
Publication No. US20020048802A1  
GENERAL INFORMATION:  
APPLICANT: Inouye, Sumiko  
APPLICANT: Hsu, Mei-Yin  
APPLICANT: Eagle, Susan  
APPLICANT: Inouye, Masayori  
TITLE OF INVENTION: PROKARYOTIC REVERSE TRANSCRIPTASE  
NUMBER OF SEQUENCES: 52  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: WEISER & ASSOCIATES  
STREET: 230 South Fifteenth Street, Suite 500  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/808,031A  
FILING DATE: 03-MAR-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Weiser, Gerard J.  
REGISTRATION NUMBER: 19,763  
REFERENCE/DOCKET NUMBER: 377(913).5888P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-875-8383  
TELEFAX: 215-875-8394  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 263 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-808-031A-4

Query Match 24.9%; Score 239; DB 8; Length 263;  
Best Local Similarity 37.5%; Pred. No. 2.7e-18;

Matches 60; Conservative 23; Mismatches 61; Indels 16; Gaps 5;

QY 1 FTPLAQDCEKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60  
Db 106 FOILPKQFOFYFAFTVQCCNYGPGTRYAKWVLPQGFKNSTPLFEMQLAHILQPIROAF 165

QY 61 SDCVIIHYFDDILCAAETKDKLIDCYTFLPAEVANAGLAIASDKI-QTSTPPHYLGMQIE 119  
Db 166 PQCTILQYMDILLASPSHEDLLLSSEATWASLISHGLPVSENKTQCTPTIKFLG-QI- 223

QY 120 NRKIKPKQIEIRKDTLKT-----LNDFOKLGDINWI 151  
Db 224 ---ISPNI--HLTYDAVPTPIRSRWALPELQALIGEIQWV 258

RESULT 15  
US-09-946-239-9  
Sequence 9, Application US/09946239  
Patent No. US20020044945A1  
GENERAL INFORMATION:  
APPLICANT: Barr, Margaret C.  
TITLE OF INVENTION: No. US20020044945A1el Feline Immunodeficiency Virus Nucleotide a  
FILE REFERENCE: 18617.0059  
CURRENT APPLICATION NUMBER: US/09/946.239  
PRIORITY FILING DATE: 2001-09-04  
PRIOR APPLICATION NUMBER: US 09/238,303, US 60/072,927  
PRIOR FILING DATE: 1999-01-28, 1998-01-29  
NUMBER OF SEQ ID NOS: 17  
SEQ ID NO 9  
LENGTH: 1150  
TYPE: PRT  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: protein encoded by the pol gene of a recombinant viral  
OTHER INFORMATION: clone constructed from the genomic DNA of a Pallas's cat feline  
OTHER INFORMATION: immunodeficiency virus  
US-09-946-239-9

Query Match 24.9%; Score 238.5; DB 9; Length 1150;  
Best Local Similarity 33.3%; Pred. No. 2.4e-17;  
Matches 62; Conservative 30; Mismatches 85; Indels 9; Gaps 3;

QY 1 FTPLAQDCEKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60  
Db 296 FTPLDPDYAPYTAFTPLPKINNPGFVWCGVLPQGWVLSPLIYQSTLANNILKPFREQH 355

QY 61 SDCVIIHYFDDILCAAETKDKLIDCYTFLPAEVANA-----GLAIASDKIQTSTPPHYLGM 116  
Db 356 PEIDLYQYMDIYIGSDLGKKE---HKQIVEELKLLWGWFTPEDKLQEQPPYKMGY 412

QY 117 QIENRKIKPKQIEIRKDTLNTDFOKLGDINWIPTLGIPTVAMSNLFSILRGSDSLN 176  
Db 413 ELYPRKWTIQTKELIIPPEPTLNLQKLVGLIINWSSQI--IPGLRIKALTNMKGNOALD 470

QY 177 SKRMLT 182  
Db 471 SKRRWT 476

Search completed: May 5, 2004, 16:06:44  
Job time : 39.093 secs

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: May 5, 2004, 15:53:16 ; Search time 37.8837 Seconds  
(without alignments)  
1324.350 Million cell updates/sec

Title: US-09-490-700-40

Perfect score: 978

Sequence: 1 MVTPTVMDNPPIEVYVNDV.....POLLRTNSVSKTSESSCR 181

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1138120 segs, 27189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

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3:	/cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4:	/cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5:	/cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6:	/cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
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10:	/cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11:	/cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12:	/cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13:	/cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14:	/cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15:	/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
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17:	/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18:	/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	840	85.9	153	14	US-10-236-091-1
2	840	85.9	153	15	US-10-233-958-7
3	840	85.9	560	15	US-10-233-958-9
4	840	85.9	560	15	US-10-233-958-10
5	832	85.1	560	15	US-10-233-958-11
6	831	85.0	560	15	US-10-233-958-8
7	220	22.5	48	9	US-09-864-761-33768
8	184.5	18.9	146	12	US-10-243-552-540
9	87	8.9	164	15	US-10-104-047-2900
10	85	8.7	16	14	US-10-236-091-2
11	84	8.6	15	14	US-10-236-091-3
12	84	8.6	844	14	US-10-156-761-7663
13	83.5	8.5	1008	12	US-10-276-774-1897
14	82.5	8.4	1078	12	US-10-170-385-295
15	81	8.3	15	14	US-10-236-091-4

16	80.5	8.2	2813	9	US-09-886-900-2	Sequence 2, Appli
17	79.5	8.1	616	12	US-10-425-114-71464	Sequence 71464, A
18	79	8.1	295	12	US-10-412-699B-26	Sequence 26, Appl
19	79	8.1	295	12	US-10-225-066A-686	Sequence 686, App
20	79	8.1	295	14	US-10-278-536-184	Sequence 184, App
21	79	8.1	295	15	US-10-421-138A-103	Sequence 103, App
22	79	8.1	295	15	US-10-374-780A-2212	Sequence 2212, Ap
23	77	7.9	203	12	US-10-424-599-154998	Sequence 154998, App
24	76	7.8	2301	15	US-10-094-886-138	Sequence 138, App
25	75	7.7	475	12	US-10-424-599-271886	Sequence 271886, App
26	75	7.7	481	10	US-09-759-967-21	Sequence 21, Appl
27	75	7.7	481	12	US-10-424-599-171702	Sequence 171702, A
28	75	7.7	488	12	US-10-425-114-43865	Sequence 43865, A
29	75	7.7	489	12	US-10-425-114-45639	Sequence 45639, A
30	75	7.7	491	12	US-10-425-114-44047	Sequence 44047, A
31	75	7.7	492	12	US-10-425-114-43836	Sequence 43836, A
32	75	7.7	492	12	US-10-425-114-46294	Sequence 46294, A
33	74	7.6	371	12	US-10-425-114-47934	Sequence 47934, A
34	74	7.6	502	12	US-10-424-599-182969	Sequence 182969, A
35	73.5	7.5	271	12	US-10-425-114-67471	Sequence 67471, A
36	73.5	7.5	467	15	US-10-051-874-105	Sequence 105, App
37	73.5	7.5	511	15	US-10-051-874-104	Sequence 104, App
38	73.5	7.5	1420	9	US-09-801-368-356	Sequence 356, App
39	72.5	7.4	1618	12	US-10-424-599-206388	Sequence 206388, App
40	72.5	7.4	602	15	US-10-260-937-52	Sequence 52, Appl
41	72.5	7.4	687	9	US-09-792-630-37	Sequence 37, Appl
42	72.5	7.4	687	10	US-09-953-351-37	Sequence 37, Appl
43	72.5	7.4	687	13	US-10-080-376-37	Sequence 37, Appl
44	72.5	7.4	687	14	US-10-082-671-43	Sequence 43, Appl
45	72.5	7.4	687	14	US-10-097-100-37	Sequence 37, Appl

## ALIGNMENTS

RESULT 1  
US-10-236-091-1  
; Sequence 1, Application US/10236091  
; Publication No. US20030162263A1  
; GENERAL INFORMATION:  
; APPLICANT: Dupuis, Marc  
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV  
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining  
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against  
; TITLE OF INVENTION: SAG  
; FILE REFERENCE: 23135-506  
; CURRENT APPLICATION NUMBER: US/10/236,091  
; CURRENT FILING DATE: 2002-09-06  
; PRIOR APPLICATION NUMBER: 60/317,703  
; PRIOR FILING DATE: 2001-09-06  
; PRIOR APPLICATION NUMBER: 60/317,704  
; PRIOR FILING DATE: 2001-09-06  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 153  
; TYPE: PRT  
; ORGANISM: Human endogenous retrovirus  
US-10-236-091-1

Query Match 85.9%; Score 840; DB 14; Length 153;  
Best Local Similarity 100.0%; Pred. No. 4.5e-87;  
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MVTPTVMDNPPIEVYVNDVSVVVGPTDDRCRPAKPESEGMMINISIGHVYPPICLRAPGC	60
Dd	1	MVTPTVMDNPPIEVYVNDVSVVVGPTDDRCRPAKPESEGMMINISIGHVYPPICLRAPGC	60
Qy	61	LMPAQVQNLWEVTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSRSLKFRPKGKTCPEKI	120
Dd	61	LMPAQVQNLWEVTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSRSLKFRPKGKTCPEKI	120
Qy	121	PKGSKTEVLWBEVCVANSVVIILQNNFGTIID	153

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|||||
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153

RESULT 2
US-10-233-958-7
; Sequence 7, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 7
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-7

Query Match
Best Local Similarity 85.9%; Score 840; DB 15; Length 153;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLWLEVPVTPNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNLWLEVPVTPNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153

RESULT 3
US-10-233-958-9
; Sequence 9, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-9

Query Match
Best Local Similarity 85.9%; Score 840; DB 15; Length 560;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLWLEVPVTPNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNLWLEVPVTPNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153

RESULT 5
US-10-233-958-1
; Sequence 1, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-1

Query Match
Best Local Similarity 85.9%; Score 840; DB 15; Length 560;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLWLEVPVTPNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNLWLEVPVTPNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
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; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (97)
; OTHER INFORMATION: Where Xaa is Tyr, Cys, Phe or Ser
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (154)
; OTHER INFORMATION: Where Xaa is Trp, Leu, Ser, or Stop
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (272)
; OTHER INFORMATION: Where Xaa is Val, Ile or Leu
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (348)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (534)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; US-10-233-958-1

Query Match      85.1%; Score 832; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2.2e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVTPTWMDNPIEVYVNDVSVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDVSVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPVNVLQDFSYORSLSKFRPKGKTCPKEI 120
Db 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPVNVLQDFSYORSLSKFRPKGKTCPKEI 120
QY 121 PGSKNTEVLVWEECVANSVWILQNNFEFTIID 153
Db 121 PGSKNTEVLVWEECVANSVWILQNNFEFTIID 153

RESULT 6
US-10-233-958-8
; Sequence 8, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; APPLICANT: Conrad, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 560
; TYPE: PRT
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; ORGANISM: Human endogenous retrovirus
; US-10-233-958-8

Query Match      85.0%; Score 831; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2.9e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVTPTWMDNPIEVYVNDVSVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDVSVWVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPVNVLQDFSYORSLSKFRPKGKTCPKEI 120
Db 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPVNVLQDFSYORSLSKFRPKGKTCPKEI 120
QY 121 PGSKNTEVLVWEECVANSVWILQNNFEFTIID 153
Db 121 PGSKNTEVLVWEECVANSVWILQNNFEFTIID 153

RESULT 7
US-09-864-761-33768
; Sequence 33768, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aesomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33768
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; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL035086.12
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
; OTHER INFORMATION: EST_HUMAN HIT: AA668498.1, EVALUE 7.00e-16
; OTHER INFORMATION: SWISSPROT HIT: P10267, EVALUE 6.00e-19
US-09-864-761-33768

Query Match      22.5%; Score 220; DB 9; Length 48;
Best Local Similarity 83.3%; Pred. No. 2.6e-17;
Matches 40; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 47 YHYPICLGRAPGCLMPAVQNLVVEVPTVSPNSRFTYHVMYSGMSLRPR 94
      |||||
Db 1 YCYPPICLGRAPGCLMPTTQNLVVEVPTVSGTSFTYHRYSGMSLRPQ 48

RESULT 8
US-10-243-552-540
; Sequence 540, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhwei
; APPLICANT: Weng, Gezhai
; APPLICANT: Ma, Yunqing
; TITLE OF INVENTION: Novel Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 540
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-540

Query Match      18.9%; Score 184.5; DB 12; Length 146;

```

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Best Local Similarity 53.1%; Pred. No. 1.3e-12;
Matches 34; Conservative 11; Mismatches 18; Indels 1; Gaps 1;

QY 1 MYTPVTWMDNPLEVYVNDVSVVPGTDDRCCKAPEEGMINISIGYHYPPICLG-RAPG 59
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 59 LIRAMTWMDAPLEVYVNDVSIWMPGSDRCPAQSEEGTPTFNITLGFRTLVQGVGRASG 118
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 60 CLMP 63
      :|||
Db 119 IP1P 122

RESULT 9
US-10-104-047-2900
; Sequence 2900, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1e1 full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2900
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-2900

Query Match      8.9%; Score 87; DB 15; Length 164;
Best Local Similarity 32.7%; Pred. No. 0.19;
Matches 17; Conservative 7; Mismatches 18; Indels 10; Gaps 1;

QY 129 VLWVEECVANSVILQNNNEFTGIIIDLTGTSRILPQLRTNSVSKCTSESSC 180
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 3 VLWVEDCIAEQAEVLHNDYGVIIIDCSPK-----GMFSLNCASQSAC 44

RESULT 10
US-10-236-091-2
; Sequence 2, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-2

Query Match      8.7%; Score 85; DB 14; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 116 CPKEIPKSGSKNTEVLV 131
      |||||
Db 1 CPKEIPKSGSKNTEVLV 16

```

Db 395 AAWTRQGHSHVMVPLRAHGTTLGVALFARSHR-----PBFEEADDLWLAE 442

QY 135 CVANSWILQN-----NEFGTHIDIGTSRILPQLL 165  
Db 443 LTAQTAVHLNHAHREHHTTMTL--QRSLPQKL 476

## RESULT 13

US-10-276-774-1897  
; Sequence 1897, Application US/10276774  
; Publication No. US20040053245A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; APPLICANT: Tang, Y, Tom et al  
; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides  
; FILE REFERENCE: 21272-030  
; CURRENT APPLICATION NUMBER: US/10/276,774  
; CURRENT FILING DATE: 2002-11-18  
; PRIOR APPLICATION NUMBER: 09/560,875  
; PRIOR FILING DATE: 2000-04-27  
; PRIOR APPLICATION NUMBER: 09/496,914  
; PRIOR FILING DATE: 2000-02-03  
; NUMBER OF SEQ ID NOS: 2700  
; SOFTWARE: Custom  
; SEQ ID NO 1897  
; LENGTH: 1008  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: (1)...(1008)  
; OTHER INFORMATION: Xaa = any amino acid or nothing  
US-10-276-774-1897

Query Match 8.5%; Score 83.5; DB 12; Length 1008;  
Best Local Similarity 29.3%; Pred. No. 6;  
Matches 27; Conservative 13; Mismatches 33; Indels 19; Gaps 5;

QY 2 VTPVTWMDNP-----IEVVNDVVMVPGTDDRCFAKPEEGMINISIG--YH 48  
Db 160 LTPAQLQGPGVLAAPGPHVPGFLAQSPW-PLPSGPRSPXDLHQGALVPLPQGGSPH 218

QY 49 YPPICLGRAPCCLMPAVQNMVVEVTVSPNSR 80  
Db 219 TAPHCL---PSVLSPAIQQL--LPTASTSSR 245

## RESULT 14

US-10-170-385-295  
; Sequence 295, Application US/10170385  
; Publication No. US2003020372A1  
; GENERAL INFORMATION:  
; APPLICANT: Ward, Neil Raymond  
; APPLICANT: Mundy, Christopher Robert  
; APPLICANT: Kan, On  
; APPLICANT: Harris, Robert Alan  
; APPLICANT: White, Jonathan  
; APPLICANT: Binley, Katie Mary  
; APPLICANT: Rayner, William Nigel  
; APPLICANT: Naylor, Stuart  
; APPLICANT: Kingsman, Susan Mary  
; APPLICANT: Krige, David  
; TITLE OF INVENTION: ANALYSIS METHOD  
; FILE REFERENCE: 53268200100  
; CURRENT APPLICATION NUMBER: US/10/170,385  
; CURRENT FILING DATE: 2002-06-12  
; PRIOR APPLICATION NUMBER: PCT/GB02/01662  
; PRIOR FILING DATE: 2002-04-08  
; PRIOR APPLICATION NUMBER: PCT/GB01/05458  
; PRIOR FILING DATE: 2001-12-10  
; NUMBER OF SEQ ID NOS: 549  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 295

RESULT 11  
US-10-236-091-3  
; Sequence 3, Application US/10236091  
; Publication No. US20030162263A1  
; GENERAL INFORMATION:  
; APPLICANT: Dupuis, Marc  
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV  
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining  
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against  
; TITLE OF INVENTION: SAG  
; FILE REFERENCE: 23135-506  
; CURRENT APPLICATION NUMBER: US/10/236,091  
; CURRENT FILING DATE: 2002-09-06  
; PRIOR APPLICATION NUMBER: 60/317,703  
; PRIOR FILING DATE: 2001-09-06  
; PRIOR APPLICATION NUMBER: 60/317,704  
; PRIOR FILING DATE: 2001-09-06  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Human endogenous retrovirus  
US-10-236-091-3

Query Match 8.6%; Score 84; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.015;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 GKTCPEIKPKGSKNT 127  
Db 1 GKTCPEIKPKGSKNT 15

## RESULT 12

US-10-156-761-7663  
; Sequence 7663, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIEA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 7663  
; LENGTH: 844  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
US-10-156-761-7663

Query Match 8.6%; Score 84; DB 14; Length 844;  
Best Local Similarity 27.6%; Pred. No. 4.1;  
Matches 43; Conservative 15; Mismatches 64; Indels 34; Gaps 7;

QY 24 GPTRDRCFAKPEEGMINISIGVHYPP---PI--CLGRAPGCLM----PAVQNMVVEVPT 74  
Db 341 GDGSDTHPATPPAGKEL-----LTPAQSPVACLAHQGALYEADDPAITRNANDPT 394  
QY 75 VSPNSRFTYHVMGMSLRPRVNYLQDFSVQRSKFRPKGKTCPEIKPKGSKNTVEVLWEE 134

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; LENGTH: 1078
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-170-385-295

Query Match      8.4%; Score 82.5; DB 12; Length 1078;
Best Local Similarity 23.8%; Pred. No. 8.5;
Matches 39; Conservative 23; Mismatches 61; Indels 41; Gaps 7;

QY 44 SIGHYPPICIGRAPGCMFAVQVNLVEVPTVSNRFTY-----HM--- 85
Db 272 SVGYSTP-----SLPGYQNTTPGATGVPPSLNYPSPGQAFQTQPLGANHLTTS 322
QY 86 VSGMSLRPR-----VNYLQDFSYQBSLKRPKGKTCPKKEIPKGSKNTEVLVWEECVANSV- 140
Db 323 MSGLSLQPEGLRVVNLQERNMLPSTPLKPPVFNHLEDIQKLNCPSELF---RCTLTSLP 379
QY 141 ---VILQNNFGTIIDLGTSRSLPQLLRNNSVVKCTSSSCR 181
Db 380 QTQALLNKAKPLIGLLHHPKDLVQLPVTSSIVRC---RSCR 420
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```
RESULT 15
US-10-236-091-4
; Sequence 4, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; TITLE OF INVENTION: SAG
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-4
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Query Match      8.3%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 116 CPKEIPKGSKNTEVL 130
Db 1 CPKEIPKGSKNTEVL 15
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Search completed: May 5, 2004, 16:06:43  
Job time : 38.8837 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 5, 2004, 15:48:56 ; Search time 15.0833 Seconds  
(without alignments)  
619.512 Million cell updates/sec

Title: US-09-490-700-40

Perfect score: 978

Sequence: 1 MVTPTVMQNDPIEVYVDSV.....PQLLRNSVVKCTESSCR 181

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgm2\_6/prodata/2/iaa/5A COMB.pep:\*
- 2: /cgm2\_6/prodata/2/iaa/5B COMB.pep:\*
- 3: /cgm2\_6/prodata/2/iaa/6A COMB.pep:\*
- 4: /cgm2\_6/prodata/2/iaa/6B COMB.pep:\*
- 5: /cgm2\_6/prodata/2/iaa/PCTUS COMB.pep:\*
- 6: /cgm2\_6/prodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	80.5	8.2	1003	1	US-07-991-867B-6
2	80.5	8.2	1003	1	US-08-107-755A-6
3	80.5	8.2	1003	2	US-08-544-332-6
4	80.5	8.2	1003	3	US-09-370-861A-6
5	80.5	8.2	2813	3	US-08-896-445A-2
6	80.5	8.2	2813	3	US-09-132-652-2
7	73.5	7.5	1420	2	US-08-540-804-14
8	73.5	7.5	1420	2	US-08-218-265-14
9	73.5	7.5	1420	3	US-08-521-872-14
10	73.5	7.5	1420	3	US-08-590-399-14
11	72	7.4	1342	4	US-09-561-709B-13
12	71	7.3	725	4	US-09-668-113A-8
13	70.5	7.2	1064	4	US-09-252-991A-17508
14	70	7.2	151	4	US-09-690-454-150
15	69.5	7.1	440	1	US-07-930-686-12
16	69.5	7.1	440	2	US-08-460-998-12
17	69	7.1	468	4	US-09-149-476-387
18	69	7.1	549	4	US-09-673-395A-208
19	69	7.1	549	4	US-09-673-395A-564
20	68.5	7.0	142	4	US-09-198-119C-45
21	68.5	7.0	192	1	US-08-088-428B-100
22	68.5	7.0	192	2	US-08-468-570-100
23	68.5	7.0	192	2	US-08-290-665A-100
24	68.5	7.0	192	4	US-08-466-601A-100
25	68.5	7.0	192	5	PCT-US95-10398-100
26	68.5	7.0	479	4	US-09-489-039A-11164
27	68.5	7.0	480	3	US-09-078-173A-25

28 68.5 7.0 480 3 US-09-537-357-32 Sequence 32, Appl  
29 68 7.0 268 4 US-09-252-991A-30350 Sequence 30350, A  
30 67.5 6.9 390 4 US-09-543-681A-5753 Sequence 5753, Ap  
31 67.5 6.9 473 3 US-08-857-076-99 Sequence 99, Appl  
32 67.5 6.9 484 3 US-09-080-044-7 Sequence 7, Appl  
33 67.5 6.9 484 4 US-09-531-857A-7 Sequence 15, Appl  
34 67.5 6.9 533 1 US-08-220-151-15 Sequence 15, Appl  
35 67.5 6.9 533 3 US-08-473-446-15 Sequence 15, Appl  
36 67.5 6.9 1572 2 US-08-290-731C-5 Sequence 5, Appl  
37 67.5 6.9 1596 3 US-09-356-952-3 Sequence 3, Appl  
38 67 6.9 345 4 US-09-040-220D-2 Sequence 2, Appl  
39 67 6.9 345 4 US-09-457-056-2 Sequence 2, Appl  
40 67 6.9 345 4 US-03-285-686-2 Sequence 2, Appl  
41 67 6.9 345 4 US-09-540-224-5 Sequence 5, Appl  
42 67 6.9 345 4 US-09-564-595D-33 Sequence 33, Appl  
43 67 6.9 345 4 US-09-706-968-2 Sequence 2, Appl  
44 67 6.9 345 4 US-09-723-749-2 Sequence 2, Appl  
45 67 6.9 345 4 US-09-723-749-2 Sequence 2, Appl

#### ALIGNMENTS

##### RESULT 1

US-07-991-867B-6  
; Sequence 6, Application US/07991867B  
; Patent No. 5476781  
; GENERAL INFORMATION:  
; APPLICANT: Moyer, Richard W.  
; APPLICANT: Hall, Richard L.  
; APPLICANT: Gruidl, Michael E.  
; TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System  
; NUMBER OF SEQUENCES: 66  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: David R. Saliwanchik  
; STREET: 2421 N.W. 41st Street, Suite A-1  
; CITY: Gainesville  
; STATE: FL  
; COUNTRY: USA  
; ZIP: 32606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/991,867B  
; FILING DATE: 12-DEC-1992  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO 92/14818  
; FILING DATE: 12-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/827,685  
; FILING DATE: 30-JAN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/657,584  
; FILING DATE: 19-FEB-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Saliwanchik, David R.  
; REGISTRATION NUMBER: 31,794  
; REFERENCE/DOCKET NUMBER: UF114.C3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 904-375-8100  
; TELEFAX: 904-372-5800  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1003 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-07-991-867B-6

Query Match 8.2%; Score 80.5; DB 1; Length 1003;  
 Best Local Similarity 24.3%; Pred. No. 2.3;  
 Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLVEVPTVSPNSRFTYHMSG---MSLRPRVNYLQDFSQYQSLKFR 110  
 DB 441 CLKPKVPKRLWGLWILDCTD---SRFKHMDGSDLDLDVRLN-----482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVVLQNNFETGTTIDLGTSRSI 160  
 DB 483 -RNDICLKQAIKQHYTNVILLEYANTYPNCTLSLGNRRFNNVFMNDNKTI 532

RESULT 2  
 US-08-107-755A-6  
 ; Sequence 6, Application US/08107755A  
 ; Patent No. 5721352  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Meyer, Richard W.  
 ; APPLICANT: Hall, Richard L.  
 ; APPLICANT: Gruidl, Michael E.  
 ; TITLE OF INVENTION: NO. 5721352el Entomopoxvirus Expression System  
 ; NUMBER OF SEQUENCES: 40  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: David R. Saliwanchik  
 ; STREET: 2421 N.W. 41st Street, Suite A-1  
 ; CITY: Gainesville  
 ; STATE: Florida  
 ; COUNTRY: U.S.A.  
 ; ZIP: 32606  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/107,755A  
 ; FILING DATE: 19-AUG-1993  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/827,658  
 ; FILING DATE: 30-JAN-1992  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/657,584  
 ; FILING DATE: 19-FEB-1991  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Saliwanchik, David R.  
 ; REGISTRATION NUMBER: 31,794  
 ; REFERENCE/DOCKET NUMBER: Uf114.C2  
 ; TELEPHONE: (904) 375-8100  
 ; TELEFAX: (904) 372-5800  
 ; INFORMATION FOR SEQ ID NO: 6:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1003 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 US-08-107-755A-6

Query Match 8.2%; Score 80.5; DB 1; Length 1003;  
 Best Local Similarity 24.3%; Pred. No. 2.3;  
 Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLVEVPTVSPNSRFTYHMSG---MSLRPRVNYLQDFSQYQSLKFR 110  
 DB 441 CLKPKVPKRLWGLWILDCTD---SRFKHMDGSDLDLDVRLN-----482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVVLQNNFETGTTIDLGTSRSI 160  
 DB 483 -RNDICLKQAIKQHYTNVILLEYANTYPNCTLSLGNRRFNNVFMNDNKTI 532

RESULT 3  
 US-08-544-332-6  
 ; Sequence 6, Application US/08544332  
 ; Patent No. 5935777  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Meyer, Richard W.  
 ; APPLICANT: Hall, Richard L.  
 ; APPLICANT: Gruidl, Michael E.  
 ; TITLE OF INVENTION: NO. 5935777el Entomopoxvirus Expression System  
 ; NUMBER OF SEQUENCES: 77  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Gerard H. Bencen  
 ; STREET: 2421 N.W. 41st Street, Suite A-1  
 ; CITY: Gainesville  
 ; STATE: FL  
 ; COUNTRY: USA  
 ; ZIP: 32606  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/544,332  
 ; FILING DATE:  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/991,867  
 ; FILING DATE: 07-DEC-1992  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/107,755  
 ; FILING DATE: 19-AUG-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: WO 92/14818  
 ; FILING DATE: 12-FEB-1992  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/827,685  
 ; FILING DATE: 30-JAN-1992  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/657,584  
 ; FILING DATE: 19-FEB-1991  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Bencen, Gerard H.  
 ; REGISTRATION NUMBER: 35,746  
 ; REFERENCE/DOCKET NUMBER: Uf114.C4  
 ; TELEPHONE: 904-375-8100  
 ; TELEFAX: 904-372-5800  
 ; INFORMATION FOR SEQ ID NO: 6:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1003 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 US-08-544-332-6

Query Match 8.2%; Score 80.5; DB 2; Length 1003;  
 Best Local Similarity 24.3%; Pred. No. 2.3;  
 Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLVEVPTVSPNSRFTYHMSG---MSLRPRVNYLQDFSQYQSLKFR 110  
 DB 441 CLKPKVPKRLWGLWILDCTD---SRFKHMDGSDLDLDVRLN-----482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVVLQNNFETGTTIDLGTSRSI 160  
 DB 483 -RNDICLKQAIKQHYTNVILLEYANTYPNCTLSLGNRRFNNVFMNDNKTI 532

RESULT 4  
 US-09-370-861A-6  
 ; Sequence 6, Application US/09370861A  
 ; Patent No. 6410221

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; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: No. 6410221el Entomopoxvirus Expression System
; FILE REFERENCE: UFI14.C4.D1
; CURRENT FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: US 07/991,867
; PRIOR FILING DATE: 1992-12-07
; PRIOR APPLICATION NUMBER: US 08/107,755
; PRIOR FILING DATE: 1993-08-19
; PRIOR APPLICATION NUMBER: WO 92/14818
; PRIOR FILING DATE: 1992-02-12
; PRIOR APPLICATION NUMBER: US 07/827,685
; PRIOR FILING DATE: 1992-01-30
; PRIOR APPLICATION NUMBER: US 07/657,584
; PRIOR FILING DATE: 1991-02-19
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 6
; LENGTH: 1003
; TYPE: PRT
; ORGANISM: Anasacta moorei entomopoxvirus
US-09-370-861A-6

Query Match      8.2%; Score 80.5; DB 4; Length 1003;
Best Local Similarity 24.3%; Pred. No. 2,3;
Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAQV-----NMLVEPTVSPNSRFTYHVSQ---MSLRPRVNYLQDFSYORSKFR 110
Db 441 CLKPRVPRNLRWGMJLDCDT-----SRFKHVDGSDLDLDVRLN----- 482

QY 111 PKGKTCPEK-IPKSGKNTVELVWEECVANSVVLQNNNEFGTIDLGTSRSI 160
Db 483 -RNDICLKQAIQHNTVILLEYANTYNCILSLGNRFNPNVFDWMDNKTII 532

RESULT 5
US-08-896-449A-2
; Sequence 2, Application US/08996449A
; Patent No. 6040143
; GENERAL INFORMATION:
; APPLICANT: Venta, Patrick J
; APPLICANT: Yuzbasiyan-Gurkan, Vilma
; APPLICANT: Schall, William D
; APPLICANT: Brewer, George J
; TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND
; TITLE OF INVENTION: FACTOR AND METHODS OF USE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: 5445 Corporate Drive
; CITY: Troy
; STATE: Michigan
; COUNTRY: USA
; ZIP: 48098
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/896,449A
; FILING DATE: 18-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, DeAnn F.
; REFERENCE/DOCKET NUMBER: 2115-001226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 248-641-1600
; TELEFAX: 248-641-0270

```

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; TELEX: 287637
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2813 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-896-449A-2

Query Match      8.2%; Score 80.5; DB 3; Length 2813;
Best Local Similarity 21.8%; Pred. No. 10;
Matches 46; Conservative 29; Mismatches 73; Indels 63; Gaps 8;

QY 26 TDDRCPAKPEEKGMINIS---IGYHYPPIC-----LGRAPGCLMPAVQNWLVVPT 74
Db 859 TDHVCDATCSAIGMAHYLTFDGLKYLFPGEQYVLVDYCGSNPGLRLILVGNEGCSYPS 918
QY 75 VSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSKFRPKGKTCPEKPKGSKNTEVL---- 130
Db 919 VKCKKRVTI-LVEG-----GEIELFDGEVNVKPKMKDETHFEVVGSGQYVILLGKAL 970
QY 131 --VWEECVANSVVI-----LQNNNEFGTI-----IDLGTSRSILPQ 163
Db 971 SVVWDHRLSISVTLKRTYQEQVCGVGLGNPDGIGNDFTSSSLQIEEDPVDVFGNWKVNPQ 1030
QY 164 LLRT-----NSVWSKCTSESSCR 181
Db 1031 CADTKKVPDLDSPAVCHNNIMKQTMVDSSCR 1061

RESULT 6
US-09-132-652-2
; Sequence 2, Application US/09132652
; Patent No. 6074832
; GENERAL INFORMATION:
; APPLICANT: Venta, Patrick J
; APPLICANT: Yuzbasiyan-Gurkan, Vilma
; APPLICANT: Schall, William D
; APPLICANT: Brewer, George J
; APPLICANT: Duffendeck, John
; TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND FACTOR AND METHODS
; TITLE OF INVENTION: OF USE
; FILE REFERENCE: 2115S-001226CPB
; CURRENT APPLICATION NUMBER: US/09/132,652
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: 08/896,449
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 2
; LENGTH: 2813
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-132-652-2

Query Match      8.2%; Score 80.5; DB 3; Length 2813;
Best Local Similarity 21.8%; Pred. No. 10;
Matches 46; Conservative 29; Mismatches 73; Indels 63; Gaps 8;

QY 26 TDDRCPAKPEEKGMINIS---IGYHYPPIC-----LGRAPGCLMPAVQNWLVVPT 74
Db 859 TDHVCDATCSAIGMAHYLTFDGLKYLFPGEQYVLVDYCGSNPGLRLILVGNEGCSYPS 918
QY 75 VSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSKFRPKGKTCPEKPKGSKNTEVL---- 130
Db 919 VKCKKRVTI-LVEG-----GEIELFDGEVNVKPKMKDETHFEVVGSGQYVILLGKAL 970
QY 131 --VWEECVANSVVI-----LQNNNEFGTI-----IDLGTSRSILPQ 163
Db 971 SVVWDHRLSISVTLKRTYQEQVCGVGLGNPDGIGNDFTSSSLQIEEDPVDVFGNWKVNPQ 1030
QY 164 LLRT-----NSVWSKCTSESSCR 181

```



TITLE OF INVENTION: Transcription and Methods of Use Therefor  
NUMBER OF SEQUENCES: 37  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
STREET: Two Militia Drive  
CITY: Lexington  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02173

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA: US/08/521,872  
FILING DATE: 31-AUG-1995  
CLASSIFICATION: 436  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/218,265  
FILING DATE: 25-MAR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: WHI94-03A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-861-6240  
TELEFAX: 617-861-9540  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1420 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-521-872-14

Query Match 7.5%; Score 73.5; DB 3; Length 1420;  
Best Local Similarity 23.0%; Pred. No. 26;  
Matches 47; Conservative 29; Mismatches 77; Indels 51; Gaps 11;

QY 16 VDSVWVPGTDRDRCFAKPEERG-----MMINISIGHYHP 50  
DB 69 INDDPVPTPAIEHKVPSPDKIGTTADYSKENLPPHYALFKALRRKIYNLALGSHNK 128  
QY 51 PICLGRAPGCL-MPAVQNWLVFV-PTVSPNSRFTYHM-VSGMSLRP--RVNYLQDFSYOR 105  
DB 129 LIQFGNA--CISLSGVNLYVQLEPHLFVNGDLTVSLCAKNMGLVPMKEENLESFSLKH 186  
QY 106 SLKFRPKG-----KTCPEK--IPKGSKNTEVLVWEECVANSVVLONNE----FGTIIDL 154  
DB 187 ALYLAPSGIRMLAPASKOGYLITPPKHTELLTLTSLVSHG-INLQNKNLKWAIVVPDL 245  
QY 155 G-----TSRSILPQLLRNSW 171  
DB 246 GHLNGHTPTIASYLTPLLEAKLV 269

RESULT 10  
US-08-590-399-14  
Sequence 14, Application US/08590399  
Patent No. 6214588  
GENERAL INFORMATION:  
APPLICANT: Young, Richard A.  
APPLICANT: Koleske, Anthony J.  
APPLICANT: Thompson, Craig M.  
APPLICANT: Chao, David M.  
TITLE OF INVENTION: No. 6214588el Factors Which Modify Gene  
NUMBER OF SEQUENCES: 39  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
STREET: Two Militia Drive  
CITY: Lexington

STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02173  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA: US/08/590,399  
FILING DATE: 26-JAN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/540,804  
FILING DATE: 11-OCT-1995  
APPLICATION NUMBER: US 08/521,872  
FILING DATE: 31-AUG-1995  
APPLICATION DATA:  
APPLICATION NUMBER: US 08/218,265  
FILING DATE: 25-MAR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: WHI94-03A3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-861-6240  
TELEFAX: 617-861-9540  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1420 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-590-399-14

Query Match 7.5%; Score 73.5; DB 3; Length 1420;  
Best Local Similarity 23.0%; Pred. No. 26;  
Matches 47; Conservative 29; Mismatches 77; Indels 51; Gaps 11;

QY 16 VDSVWVPGTDRDRCFAKPEERG-----MMINISIGHYHP 50  
DB 69 INDDPVPTPAIEHKVPSPDKIGTTADYSKENLPPHYALFKALRRKIYNLALGSHNK 128  
QY 51 PICLGRAPGCL-MPAVQNWLVFV-PTVSPNSRFTYHM-VSGMSLRP--RVNYLQDFSYOR 105  
DB 129 LIQFGNA--CISLSGVNLYVQLEPHLFVNGDLTVSLCAKNMGLVPMKEENLESFSLKH 186  
QY 106 SLKFRPKG-----KTCPEK--IPKGSKNTEVLVWEECVANSVVLONNE----FGTIIDL 154  
DB 187 ALYLAPSGIRMLAPASKOGYLITPPKHTELLTLTSLVSHG-INLQNKNLKWAIVVPDL 245  
QY 155 G-----TSRSILPQLLRNSW 171  
DB 246 GHLNGHTPTIASYLTPLLEAKLV 269

RESULT 11  
US-09-561-709B-13  
Sequence 13, Application US/09561709B  
Patent No. 6682911  
GENERAL INFORMATION:  
APPLICANT: Burgeson, Robert  
APPLICANT: Champlaud, Marie-France  
APPLICANT: Olson, Pamela  
APPLICANT: Koch, Manuel  
APPLICANT: Brunken, William  
TITLE OF INVENTION: LAMININS AND USES THEREOF  
FILE REFERENCE: 10287-060001  
CURRENT APPLICATION NUMBER: US/09/561,709B  
CURRENT FILING DATE: 2000-05-01  
PRIOR APPLICATION NUMBER: US 09/168,949  
PRIOR FILING DATE: 1998-10-09



; PRIOR APPLICATION NUMBER: US 60/061,609  
 ; PRIOR FILING DATE: 1997-10-10  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 13  
 ; LENGTH: 1342  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Consensus sequence  
 US-09-561-709B-13

Query Match 7.4%; Score 72; DB 4; Length 1342;  
 Best Local Similarity 24.3%; Pred. No. 35;  
 Matches 45; Conservative 25; Mismatches 87; Indels 28; Gaps 10;  
 QY 11 PIEVVDNVWVPGTDRDCAKPEEPEGMMINISIGYHPPICLGRAPGLMPAVQNLV 70  
 Db 413 PCDCDIGGASVCGPKNGQCECRP-HTGRSCSEAPGYFFAPLYIEAEA-TPAVH--VV 468  
 QY 71 EV---PTVSPNSRFTYHWSGMSLRPRVNY-LQDFSYQSLKPR-----PKGKTPKEI 120  
 Db 469 EPVCGNWTGPGFR-----VLGAGLFAVNNIPFPDIIEQSADMTVQIVVPGGSHCPKQ 523  
 QY 121 PK--GSKNTEVLWEEC---VANSWILQNNFETGIIIDLGTSTSIILPQLLRITNSVYSKCT 175  
 Db 524 PQSPALPATRMLLTPCLEPVOYSIDYSQGESHASLD-----SLLIPQINSLENFCSKQD 579  
 QY 176 SESSC 180  
 Db 580 LDQNC 584

RESULT 12  
 US-09-668-113A-8  
 ; Sequence 8, Application US/09668113A  
 ; Patent No. 6410703

; GENERAL INFORMATION:  
 ; APPLICANT: Russo, Thomas A.  
 ; TITLE OF INVENTION: Identification of A Vaccine Candidate from an  
 ; TITLE OF INVENTION: Extraintestinal Strain of E. coli  
 ; FILE REFERENCE: 11520.0214  
 ; CURRENT APPLICATION NUMBER: US/09/668,113A  
 ; CURRENT FILING DATE: 2000-09-22  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SEQ ID NO 8

; LENGTH: 725  
 ; TYPE: PRT  
 ; ORGANISM: Escherichia coli  
 ; FEATURE:  
 US-09-668-113A-8

Query Match 7.3%; Score 71; DB 4; Length 725;  
 Best Local Similarity 24.4%; Pred. No. 19;  
 Matches 31; Conservative 15; Mismatches 41; Indels 40; Gaps 6;  
 QY 65 VQNLVEVP--TVSPNSRFTYHWSGMSLRPRVNYLQDFS-----YQ 104  
 Db 427 IENIEPVGFTNIIPGLRFDYLSDSGGNFSPLNLSQELGDFYKVGKAGVARTFKAPNLYQ 486  
 QY 105 RSLKF--RPKGKTPCKEIPKG-----SKNTEV---LWNECVANSVVILQN 145  
 Db 487 SSEGYYLYSKNGCPCPKDITSGGCGYLLGNKDLDPISVKNKEIGLETFWEDYHA-SVYTFRN 545  
 QY 146 NEFGTII 152  
 Db 546 DYQNKIV 552

RESULT 13  
 US-09-252-991A-17508  
 ; Sequence 17508, Application US/09252991A  
 ; Patent No. 6551795

; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 17508  
 ; LENGTH: 1064  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-17508

Query Match 7.2%; Score 70.5; DB 4; Length 1064;  
 Best Local Similarity 21.0%; Pred. No. 38;  
 Matches 26; Conservative 18; Mismatches 47; Indels 33; Gaps 4;  
 QY 29 RCPAKP--EEEGMMINIS--IGYHPPICLGR-----56  
 Db 915 RCSAAGWRADGRVVEAKQPFGRYNSDCRGARFRPLADGSGPIQVFNLTDFDEV 974  
 QY 57 APGCLMPAVQNLVVEVPTVSPNSRFTYH--VSGMSLRPRVNYLQDFSYQSLKPRPKGKT 115  
 Db 975 GPGLPREAYNDFILERFAAGRDNVYTHAEVEGULLAPAFRELLRAERRGIRFPLGEL 1034  
 QY 116 CPKE 119  
 Db 1035 LPDD 1038

RESULT 14  
 US-09-690-454-150  
 ; Sequence 150, Application US/09690454  
 ; Patent No. 6531447  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Steven M. Ruben, et al.  
 ; TITLE OF INVENTION: 32 Human Secreted Proteins  
 ; FILE REFERENCE: P2006P1  
 ; CURRENT APPLICATION NUMBER: US/09/690,454  
 ; CURRENT FILING DATE: 2000-10-18

; PRIOR APPLICATION NUMBER: 09/189,144  
 ; PRIOR FILING DATE: 1998-11-10  
 ; PRIOR APPLICATION NUMBER: 60/044,039  
 ; PRIOR FILING DATE: May 30, 1997  
 ; PRIOR APPLICATION NUMBER: 60/048,093  
 ; PRIOR FILING DATE: May 30, 1997  
 ; PRIOR APPLICATION NUMBER: 60/048,190  
 ; PRIOR FILING DATE: May 30, 1997  
 ; PRIOR APPLICATION NUMBER: 60/050,935  
 ; PRIOR FILING DATE: May 30, 1997  
 ; PRIOR APPLICATION NUMBER: 60/048,101  
 ; PRIOR FILING DATE: May 30, 1997  
 ; PRIOR APPLICATION NUMBER: 60/048,356  
 ; PRIOR FILING DATE: May 30, 1997  
 ; PRIOR APPLICATION NUMBER: 60/056,250  
 ; PRIOR FILING DATE: August 29, 1997  
 ; PRIOR APPLICATION NUMBER: 60/056,296  
 ; PRIOR FILING DATE: August 29, 1997  
 ; PRIOR APPLICATION NUMBER: 60/056,293  
 ; PRIOR FILING DATE: August 29, 1997  
 ; NUMBER OF SEQ ID NOS: 229  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 150

; LENGTH: 151  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: SITE

LOCATION: (123)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-690-454-150

Query Match  
Best Local Similarity 7.2%; Score 70; DB 4; Length 151;  
Matches 35; Conservative 13; Mismatches 45; Indels 44; Gaps 8;  
QY 23 PGPTDDRCAPKEPEGMIN-----ISIGYH-----YPPICLGRAPGCLMPAYQNWLVV 72  
DB 6 PGLTS---ALXPMQEGRLVGGGSGSRGHPAGWVLPQCLLSPTLSFPDPACGLVPS 62  
QY 73 PTVSPNSRFTYHVSGLSRVRYNVLQDFYQSLKRP--KGTCTPK-----EIPKGSK 125  
DB 63 PSLLP-AVSSVHLPLGRGL-----IRPAFKIKVCSKUTVWCSLPSPR 104  
QY 126 NTEVLWNECVANSVVI 142  
DB 105 -----WRCCHGNAVAL 115

RESULT 15  
US-07-930-686-12  
Sequence 12, Application US/07930686  
Patent No. 5525508  
GENERAL INFORMATION:  
APPLICANT: Sharp, Phillip J  
APPLICANT: Wagland, Barry M  
APPLICANT: Cobon, Gary S  
TITLE OF INVENTION: Nematode Vaccine  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley and Lardner  
STREET: suite 500, 1800 Diagonal Road  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: United States of America  
ZIP: 22313-0239  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/930,686  
FILING DATE: 19921006  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: AU PK4486  
FILING DATE: 06-FEB-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/AU92/00040  
FILING DATE: 06-FEB-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Bent, Stephen A  
REGISTRATION NUMBER: 29,768  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 836-9300  
TELEFAX: (703) 683-4109  
TELEX: 899149  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 440 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-930-686-12

Query Match  
Best Local Similarity 7.1%; Score 69.5; DB 1; Length 440;  
Matches 42; Conservative 25; Mismatches 59; Indels 61; Gaps 11;  
QY 10 NPIEVYVNDVSVVPGPTDDRCP-----AKPEEGMINISIGYHYPPICLGRAPCLMP 63

DB 177 NRINHVIYD-IGDPCITDDBDCCQCTGCTCSKDE-----ALCIPPGYTTVMP 220  
QY 64 AVQNWLVVEPTVSPNSRFTYH-----MVSGNSLRPRVYVNLQDFSYQBSL----- 107  
DB 221 PT-----TEKETTTTPK-----IYHPCGMCPEPNNNGMTDEARQMFVDKNEYRSLAKGLAHNN 273  
QY 108 --XFRPKGKTCPKKEIPKGSKNTEV-----LVW-BECVANSVVLQNNNEFGTIIDLGTSRSI 160  
DB 274 LGGFAPKA-----ARMKKSYNCEIEANRVWEAKDCTLGYNVAQNNQNGYNV-----HSL 324  
QY 161 LPQLLRT 167  
DB 325 LPINKT 331

Search completed: May 5, 2004, 15:55:09  
Job time : 15.0833 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 5, 2004, 15:53:16 ; Search time 32.0233 Seconds  
(without alignments)  
1324.350 Million cell updates/sec

Title: US-09-490-700-36

Perfect score: 840

Sequence: 1 MVTPTWMDNPIEVYVNDVSV.....ECVANSVILQNNPFGTIID 153

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1138120 seqs, 277189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Published Applications AA:\*
- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
  - 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
  - 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
  - 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
  - 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
  - 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
  - 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
  - 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
  - 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
  - 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
  - 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
  - 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
  - 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
  - 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
  - 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	840	100.0	153	14	US-10-236-091-1
2	840	100.0	153	15	US-10-233-958-7
3	840	100.0	560	15	US-10-233-958-9
4	840	100.0	560	15	US-10-233-958-10
5	832	99.0	560	15	US-10-233-958-1
6	831	98.9	560	15	US-10-233-958-8
7	220	26.2	48	9	US-09-864-761-33768
8	194.5	22.0	146	12	US-10-243-553-540
9	85	10.1	15	14	US-10-236-091-2
10	84	10.0	15	14	US-10-236-091-3
11	83.5	9.9	1008	12	US-10-276-774-1897
12	81	9.6	15	14	US-10-236-091-4
13	81	9.6	164	15	US-10-104-047-2900
14	77	9.2	203	12	US-10-424-599-154998
15	75	8.9	475	12	US-10-424-599-271886

16	75	8.9	1078	12	US-10-170-385-295	Sequence 295, App
17	72.5	8.6	602	15	US-10-260-937-52	Sequence 52, Appl
18	72	8.6	194	15	US-10-264-049-2482	Sequence 2482, Ap
19	72	8.6	341	14	US-10-080-170-238	Sequence 238, App
20	72	8.6	2469	15	US-10-190-115-2	Sequence 2, Appl
21	72	8.6	2469	15	US-10-369-072-2	Sequence 2, Appl
22	71.5	8.5	430	14	US-10-043-487-265	Sequence 2, Appl
23	71.5	8.5	481	10	US-09-759-967-21	Sequence 21, Appl
24	71.5	8.5	481	12	US-10-424-599-171702	Sequence 171702,
25	71.5	8.5	488	12	US-10-425-114-43865	Sequence 43865, A
26	71.5	8.5	489	12	US-10-425-114-45639	Sequence 45639, A
27	71.5	8.5	491	12	US-10-425-114-44047	Sequence 44047, A
28	71.5	8.5	492	12	US-10-425-114-43836	Sequence 43836, A
29	71.5	8.5	492	12	US-10-425-114-46294	Sequence 46294, A
30	71.5	8.5	1222	14	US-10-060-036-74	Sequence 74, Appl
31	71.5	8.5	1222	14	US-10-060-036-160	Sequence 160, App
32	71	8.5	148	12	US-10-276-774-1755	Sequence 1755, Ap
33	71	8.5	251	12	US-10-282-122A-43662	Sequence 43662, A
34	71	8.5	652	14	US-10-156-761-14695	Sequence 14695, A
35	70	8.3	151	14	US-10-062-831-150	Sequence 150, App
36	70	8.3	151	14	US-10-062-599-150	Sequence 150, App
37	69.5	8.3	245	12	US-10-424-599-245035	Sequence 245035,
38	69.5	8.3	1481	14	US-10-050-763-1	Sequence 1, Appl
39	69	8.2	468	10	US-09-809-391-387	Sequence 387, App
40	69	8.2	468	10	US-09-882-171-387	Sequence 387, App
41	69	8.2	468	12	US-10-164-861-387	Sequence 387, App
42	69	8.2	506	14	US-10-198-070-35	Sequence 35, Appl
43	68.5	8.2	549	15	US-10-369-493-23594	Sequence 23594, A
44	68.5	8.2	844	14	US-10-156-761-7663	Sequence 7663, Ap
45	68	8.1	142	9	US-09-996-140-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1

US-10-236-091-1  
; Sequence 1, Application US/10236091  
; Publication No. US20030162263A1  
; GENERAL INFORMATION:  
; APPLICANT: Dupuis, Marc  
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV  
; TITLE OF INVENTION: Protein of HERV-K18 and their Use in Obtaining  
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against  
; TITLE OF INVENTION: SAG  
; FILE REFERENCE: 23135-506  
; CURRENT APPLICATION NUMBER: US/10/236,091  
; PRIOR FILING DATE: 2002-09-06  
; PRIOR FILING DATE: 2001-09-06  
; PRIOR FILING DATE: 2001-09-06  
; PRIOR FILING DATE: 2001-09-06  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 153  
; TYPE: PRT  
; ORGANISM: Human endogenous retrovirus  
US-10-236-091-1

Query Match 100.0%; Score 840; DB 14; Length 153;  
Best Local Similarity 100.0%; Pred. No. 4.4e-87;  
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MVTPTWMDNPIEVYVNDVSVVPGTDDRCAPKPEEGMMINISGYHYPPICLRAPGC	60
DB	1	MVTPTWMDNPIEVYVNDVSVVPGTDDRCAPKPEEGMMINISGYHYPPICLRAPGC	60
QY	61	LMPAVQNVLMVEVTPSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKPRPKGTCPKEI	120
DB	61	LMPAVQNVLMVEVTPSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKPRPKGTCPKEI	120
QY	121	PKGSQNVTEVLWEECVANSVILQNNPFGTIID	153

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Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
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RESULT 2
US-10-233-958-7
; Sequence 7, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-7

Query Match 100.0%; Score 840; DB 15; Length 153;
Best Local Similarity 100.0%; Pred. No. 4.4e-87;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153

RESULT 3
US-10-233-958-9
; Sequence 9, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-9

Query Match 100.0%; Score 840; DB 15; Length 560;
Best Local Similarity 100.0%; Pred. No. 2.5e-86;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153

RESULT 4
US-10-233-958-10
; Sequence 10, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-10

Query Match 100.0%; Score 840; DB 15; Length 560;
Best Local Similarity 100.0%; Pred. No. 2.5e-86;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153

RESULT 5
US-10-233-958-11
; Sequence 11, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
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; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (97)
; OTHER INFORMATION: Where Xaa is Tyr, Cys, Phe or Ser
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (154)
; OTHER INFORMATION: Where Xaa is Trp, Leu, Ser, or Stop
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (272)
; OTHER INFORMATION: Where Xaa is Val, Ile or Leu
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (348)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (534)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; US-10-233-958-1

Query Match          99.0%; Score 832; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCPCAKPEEAGMMINISIGHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCPCAKPEEAGMMINISIGHYPPICLGRAPGC 60
Qy 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
Db 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
Qy 121 PGSKNTEVLWEECVANSVVILQNNFETIID 153
Db 121 PGSKNTEVLWEECVANSVVILQNNFETIID 153

RESULT 6
US-10-233-958-8
; Sequence 8, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 560
; TYPE: PRT

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; ORGANISM: Human endogenous retrovirus
US-10-233-958-8

Query Match          98.9%; Score 831; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2.6e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCPCAKPEEAGMMINISIGHYPPICLGRAPGC 60
Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCPCAKPEEAGMMINISIGHYPPICLGRAPGC 60
Qy 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
Db 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
Qy 121 PGSKNTEVLWEECVANSVVILQNNFETIID 153
Db 121 PGSKNTEVLWEECVANSVVILQNNFETIID 153

RESULT 7
US-09-864-761-33768
; Sequence 33768, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33768

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; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL035086.12
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
; OTHER INFORMATION: EST HUMAN HIT: AA668498.1, EVALUE 7.00e-16
; OTHER INFORMATION: SWISSPROT HIT: P10267, EVALUE 6.00e-19
US-09-864-761-33768

Query Match          26.2%; Score 220; DB 9; Length 48;
Best Local Similarity 93.3%; Pred. No. 2.3e-17;
Matches 40; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 47 YHYPICLGRAPCLMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPQ 94
Db 1 YCVPPICLGRAPCLMPETTQNLVVEPTVSATSGFTYHRVSGMSLRPQ 48

RESULT 8
US-10-243-552-540
; Sequence 540, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Ma, Yuxing
; TITLE OF INVENTION: Novel Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 540
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-540

Query Match          22.0%; Score 184.5; DB 12; Length 146;
Best Local Similarity 100.0%; Pred. No. 0.014;

; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL035086.12
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
; OTHER INFORMATION: EST HUMAN HIT: AA668498.1, EVALUE 7.00e-16
; OTHER INFORMATION: SWISSPROT HIT: P10267, EVALUE 6.00e-19
US-09-864-761-33768

Query Match          26.2%; Score 220; DB 9; Length 48;
Best Local Similarity 93.3%; Pred. No. 2.3e-17;
Matches 40; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 47 YHYPICLGRAPCLMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPQ 94
Db 1 YCVPPICLGRAPCLMPETTQNLVVEPTVSATSGFTYHRVSGMSLRPQ 48

RESULT 8
US-10-243-552-540
; Sequence 540, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Ma, Yuxing
; TITLE OF INVENTION: Novel Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 540
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-540

Query Match          22.0%; Score 184.5; DB 12; Length 146;
Best Local Similarity 100.0%; Pred. No. 0.014;

Best Local Similarity 53.1%; Pred. No. 1.1e-12;
Matches 34; Conservative 11; Mismatches 18; Indels 1; Gaps 1;

QY 1 MVTPTVMDNPIEVYVNDSDVWVPGTDDRCAPKPESEGMNINISIGYHYPPICLG-RAPG 59
Db 59 LIRAMTWMDAPIEVYVNDSDVWVPGTDDRCAPKPESEGMNINISIGYHYPPICLG-RAPG 59
QY 60 CLMP 63
Db 119 IPIP 122

RESULT 9
US-10-236-091-2
; Sequence 2, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-2

Query Match          10.1%; Score 85; DB 14; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 116 CPKEIPKSGKNTEVLV 131
Db 1 CPKEIPKSGKNTEVLV 16

RESULT 10
US-10-236-091-3
; Sequence 3, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-3

Query Match          10.0%; Score 84; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.014;
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Db      61 RFTHEKRAWSV-----DFSL-----LCPTKPSGSDDCSVKLNINEKNS 101
QY      140 VVILQN 145
Db      102 LATIRN 107
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## RESULT 15

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US-10-424-599-271886
; Sequence 271886, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 271886
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_87531C.1.pap
US-10-424-599-271886
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Query Match      8.9%; Score 75; DB 12; Length 475;
Best Local Similarity 17.9%; Pred. No. 14;
Matches 35; Conservative 28; Mismatches 51; Indels 82; Gaps 7;

QY      4 PVTW-MDNPIEV---YVNDSDVWVGP-----TDDRCPAKPEEGMIN 42
Db      173 PITFNDSDKDEATIRLVGSFEPHGPCKTLRRIVGGGLIRAVSESWTFSSDDDFGLLE 232

QY      43 ISI-----GYHYPPICLGRAPCLMPAVQNLVVEVPTVSPNSRFTYHVS 87
Db      233 DDIEVSFPYYLWIKYALMAYHYDP-----QVSLPELSSISLYTPKIVE 275

QY      88 GMSLRPRVN-----YL-----QDFSQRSILKRPKGTCPK 118
Db      276 VVKERPKWATEFFKIHHTPYLHOLPCSWGAVFFPKHREFYVYNNRFTEDAKSNPV 335

QY      119 EIPKSKNTEVLWEE 134
Db      336 QIPKSRITNGWQASWKK 351
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Search completed: May 5, 2004, 16:06:42  
Job time : 33.0233 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2004, 15:48:56 ; Search time 12.75 Seconds  
(without alignments)  
619.512 Million cell updates/sec

Title: US-09-490-700-36

Perfect score: 840

Sequence: 1 MVTPTWMDNPFEVYVDSV.....ECVANSVILQNGRTIID 153

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

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2: /cgn2\_6/prodata/2/aaa/5B-COMB.pep:\*

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4: /cgn2\_6/prodata/2/aaa/6B-COMB.pep:\*

5: /cgn2\_6/prodata/2/aaa/PCITUS-COMB.pep:\*

6: /cgn2\_6/prodata/2/aaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	71.5	8.5	1003	1	US-07-991-867B-6
2	71.5	8.5	1003	1	US-08-107-785A-6
3	71.5	8.5	1003	2	US-08-544-332-6
4	71.5	8.5	1003	4	US-09-370-861A-6
5	71	8.5	725	4	US-09-668-113A-8
6	70.5	8.4	1064	4	US-09-252-991A-17508
7	70	8.3	151	4	US-09-690-454-150
8	69	8.2	468	4	US-09-149-476-387
9	69	8.2	549	4	US-09-673-395A-208
10	69	8.2	549	4	US-09-673-395A-208
11	68	8.1	142	4	US-09-198-119C-45
12	68	8.1	268	4	US-09-252-991A-30350
13	67.5	8.0	473	3	US-08-857-076-99
14	67.5	8.0	484	3	US-09-080-044-7
15	67.5	8.0	484	3	US-09-531-857A-7
16	67.5	8.0	533	1	US-08-220-111-15
17	67.5	8.0	533	1	US-08-413-118-15
18	67.5	8.0	533	3	US-08-473-446-15
19	67	8.0	372	4	US-09-252-991A-26719
20	66.5	7.9	480	3	US-03-078-173A-25
21	66.5	7.9	480	3	US-09-537-357-32
22	66.5	7.9	602	4	US-09-252-991A-30458
23	66.5	7.9	807	1	US-07-862-021B-10
24	66.5	7.9	807	1	US-08-313-288B-10
25	66.5	7.9	807	4	US-09-132-769-5
26	66.5	7.9	807	5	PCT-US93-03164-10
27	66.5	7.9	2409	6	5180808-2

Patent No. 5180808

Sequence 6501, Ap  
Sequence 451, Appl  
Sequence 14175, A  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 20356, A  
Sequence 11164, A  
Sequence 7, Appl  
Sequence 12, Appl  
Sequence 12, Appl  
Sequence 12, Appl  
Sequence 12, Appl  
Sequence 6047, Ap  
Sequence 7874, Ap  
Sequence 14, Appl  
Sequence 14, Appl  
Sequence 14, Appl

US-09-543-681A-6501  
US-09-258-754-451  
US-09-489-039A-14175  
US-08-218-686-2  
US-08-460-242-2  
US-03-252-991A-20356  
US-09-489-039A-11164  
US-10-162-012-27  
US-07-862-021B-12  
US-08-313-288B-12  
PCT-US93-03164-10  
US-08-688-388-40  
US-09-107-532A-6047  
US-09-489-039A-7874  
US-08-540-804-14  
US-08-218-265-14  
US-08-521-872-14

## ALIGNMENTS

### RESULT 1

US-07-991-867B-6  
; Sequence 6, Application US/07991867B  
; Patent No. 5476781  
; GENERAL INFORMATION:  
; APPLICANT: Moyer, Richard W.  
; APPLICANT: Hall, Richard L.  
; APPLICANT: Gruidl, Michael E.  
; TITLE OF INVENTION: No. 5476781e1 Entomopoxvirus Expression System  
; NUMBER OF SEQUENCES: 66  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: David R. Saliwanchik  
; STREET: 2421 N.W. 41st Street, Suite A-1  
; CITY: Gainesville  
; STATE: FL  
; COUNTRY: USA  
; ZIP: 32606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/991,867B  
; FILING DATE: 12-DEC-1992  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO 92/14818  
; FILING DATE: 12-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/827,685  
; FILING DATE: 30-JAN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/657,584  
; FILING DATE: 19-FEB-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Saliwanchik, David R.  
; REGISTRATION NUMBER: 31,794  
; REFERENCE/DOCKET NUMBER: UF114.C3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 904-375-8100  
; TELEFAX: 904-372-5800  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1003 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-07-991-867B-6

Query Match 8.5%; Score 71.5; DB 1; Length 1003;  
Best Local Similarity 25.0%; Pred. No. 20;  
Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLEVEPTVSPNSRFTYHMSG-----MSLRPRVNYLQDFSYQSLKFR 110  
Db 441 CLKPKVPKNLRLWGLWILDCDT-----SRFKHMDGSDDLDDLVRLN----- 482  
QY 111 PKGKTCPE-IPKGSKNTEVLWEECVANSVVIQNNFEFTIID 153  
Db 483 -RNDICLKQAIKQHYTNVILEYANTYPNCTLSLGNRRFNVD 525

## RESULT 2

US-08-107-755A-6  
; Sequence 6, Application US/08107755A  
; Patent No. 5721352  
; GENERAL INFORMATION:  
; APPLICANT: Moyer, Richard W.  
; APPLICANT: Hall, Richard L.  
; APPLICANT: Gruidl, Michael E.  
; TITLE OF INVENTION: No. 5721352el Entomopoxvirus Expression System  
; NUMBER OF SEQUENCES: 40  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: David R. Saliwanchik  
; STREET: 2421 N.W. 41st Street, Suite A-1  
; CITY: Gainesville  
; STATE: Florida  
; COUNTRY: U.S.A.  
; ZIP: 32606

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/107,755A  
FILING DATE: 19-AUG-1993  
CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,658  
FILING DATE: 30-JAN-1992

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/657,584  
FILING DATE: 19-FEB-1991

ATTORNEY/AGENT INFORMATION:  
NAME: Saliwanchik, David R.  
REGISTRATION NUMBER: 31,794

REFERENCE/DOCKET NUMBER: UFI14.C2  
TELEPHONE: (904) 375-8100  
TELEFAX: (904) 372-5800

INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1003 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-107-755A-6

Query Match 8.5%; Score 71.5; DB 1; Length 1003;  
Best Local Similarity 25.0%; Pred. No. 20;  
Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLEVEPTVSPNSRFTYHMSG-----MSLRPRVNYLQDFSYQSLKFR 110  
Db 441 CLKPKVPKNLRLWGLWILDCDT-----SRFKHMDGSDDLDDLVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLWEECVANSVVIQNNFEFTIID 153  
Db 483 -RNDICLKQAIKQHYTNVILEYANTYPNCTLSLGNRRFNVD 525

## RESULT 3

US-08-544-332-6  
; Sequence 6, Application US/08544332  
; Patent No. 5935777  
; GENERAL INFORMATION:  
; APPLICANT: Moyer, Richard W.  
; APPLICANT: Hall, Richard L.  
; APPLICANT: Gruidl, Michael E.  
; TITLE OF INVENTION: No. 5935777el Entomopoxvirus Expression System  
; NUMBER OF SEQUENCES: 77  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Gerard H. Bencen  
; STREET: 2421 N.W. 41st Street, Suite A-1  
; CITY: Gainesville  
; STATE: FL  
; COUNTRY: USA  
; ZIP: 32606

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/544,332  
FILING DATE:

CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/991,867  
FILING DATE: 07-DEC-1992

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/107,755  
FILING DATE: 19-AUG-1993

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 92/14818  
FILING DATE: 12-FEB-1992

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,685  
FILING DATE: 30-JAN-1992

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/657,584  
FILING DATE: 19-FEB-1991

ATTORNEY/AGENT INFORMATION:  
NAME: Bencen, Gerard H.  
REGISTRATION NUMBER: 35,746

REFERENCE/DOCKET NUMBER: UFI14.C4  
TELEPHONE: 904-375-8100  
TELEFAX: 904-372-5800

INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1003 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-544-332-6

Query Match 8.5%; Score 71.5; DB 2; Length 1003;  
Best Local Similarity 25.0%; Pred. No. 20;  
Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLEVEPTVSPNSRFTYHMSG-----MSLRPRVNYLQDFSYQSLKFR 110  
Db 441 CLKPKVPKNLRLWGLWILDCDT-----SRFKHMDGSDDLDDLVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLWEECVANSVVIQNNFEFTIID 153  
Db 483 -RNDICLKQAIKQHYTNVILEYANTYPNCTLSLGNRRFNVD 525

## RESULT 4

US-09-370-861A-6  
; Sequence 6, Application US/09370861A  
; Patent No. 6410221

## GENERAL INFORMATION:

APPLICANT: Moyer, Richard W.  
 APPLICANT: Hall, Richard L.  
 APPLICANT: Guindl, Michael E.  
 TITLE OF INVENTION: No. 6410221e1 Entomopoxvirus Expression System  
 FILE REFERENCE: UF114.C4.D1  
 CURRENT APPLICATION NUMBER: US/09/370,861A  
 CURRENT FILING DATE: 1999-08-09  
 PRIOR APPLICATION NUMBER: US 07/991,867  
 PRIOR FILING DATE: 1992-12-07  
 PRIOR APPLICATION NUMBER: US 08/107,755  
 PRIOR FILING DATE: 1993-08-19  
 PRIOR APPLICATION NUMBER: WO 9/14818  
 PRIOR FILING DATE: 1992-02-12  
 PRIOR APPLICATION NUMBER: US 07/827,685  
 PRIOR FILING DATE: 1992-01-30  
 PRIOR APPLICATION NUMBER: US 07/657,584  
 PRIOR FILING DATE: 1991-02-19  
 NUMBER OF SEQ ID NOS: 78  
 SOFTWARE: Patent in version 3.1  
 SEQ ID NO 6  
 LENGTH: 1003  
 TYPE: PRT  
 ORGANISM: Amsacta moorei entomopoxvirus

US-09-370-861A-6

Query Match 8.5%; Score 71.5; DB 4; Length 1003;  
 Best Local Similarity 25.0%; Pred. No. 20;

Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVG-----NWLVVEPTVSPNSRFTYHVMVG---MSLRPRVNYLQDFSYQSRSLKPR 110

Db 441 CLKPKVKNLRLWGLDCCDT---SRFIKEMADGSDLDLDVRLN----- 482

QY 111 PKGKTCPE-IPGSKNTEVLWEECVANSVVLQNNFGTTID 153

Db 483 -RNDICLKQAKOHTYTVILEYANTYPNCTLSLGNRRFNVD 525

## RESULT 5

US-09-668-113A-8

Sequence 8, Application US/09668113A

Patent No. 6410703

GENERAL INFORMATION:

APPLICANT: Russo, Thomas A.

TITLE OF INVENTION: Identification of A Vaccine Candidate from an

FILE REFERENCE: 11520.0214

CURRENT APPLICATION NUMBER: US/09/668,113A

CURRENT FILING DATE: 2000-09-22

NUMBER OF SEQ ID NOS: 10

SEQ ID NO 8

LENGTH: 725

TYPE: PRT

ORGANISM: Escherichia coli

FEATURE:

US-09-668-113A-8

Query Match

Best Local Similarity 24.4%; Pred. No. 15;

Matches 31; Conservative 15; Mismatches 41; Indels 40; Gaps 6;

QY 65 VQNWLVVP--TVSPNSRFTYHVMGSLRPRVNYLQDFS-----YQ 104

Db 427 IEDNIEVPQTNIPGLRFDYLDSDGNSFSLNLSQELGDFKYGKAGVARTFKAPNLYQ 486

QY 105 RSLKF--RPKGTCPKEIPKG-----SKNTEV---LWEECVANSVVLQ 145

Db 487 SSEGYYLLXGNGCPKDKITSGGCYLLGNKDLDPISVNKEIGLEFTWEDYHA-SVTYPRN 545

QY 146 NEFGTII 152

Db 546 DYQNKIV 552

## RESULT 6

US-09-252-991A-17508

Sequence 17508, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 17508

LENGTH: 1064

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17508

Query Match 8.4%; Score 70.5; DB 4; Length 1064;

Best Local Similarity 21.0%; Pred. No. 29;

Matches 26; Conservative 18; Mismatches 47; Indels 33; Gaps 4;

QY 29 RCPAKP--EEEGMMINIS--IGHYPPICLGR----- 56

Db 915 RCGAAGWADGRVVEAKQPPGFRYNSDCRGGRFRLADGSPGIPQVNVNLPFTDEW 974

QY 57 APCCLMPAQNWLVVEPTVSPNSRFTYH--VSGMSLRVNYLQDFSYCRSLKRPCKGT 115

Db 975 GPGLPREAYNDFILRFAAGRDVNTTTHAEVEGLLLAPFRELLRAERGRIRFPIGEL 1034

QY 116 CPKE 119

Db 1035 LPDD 1038

## RESULT 7

US-09-690-454-150

Sequence 150, Application US/09690454

Patent No. 6531447

GENERAL INFORMATION:

APPLICANT: Steven M. Ruben, et al.

TITLE OF INVENTION: 32 Human Secreted Proteins

FILE REFERENCE: P2006P1

CURRENT APPLICATION NUMBER: US/09/690,454

CURRENT FILING DATE: 2000-10-18

PRIOR APPLICATION NUMBER: 09/189,144

PRIOR FILING DATE: 1998-11-10

PRIOR APPLICATION NUMBER: 60/044,039

PRIOR FILING DATE: May 30, 1997

PRIOR APPLICATION NUMBER: 60/048,093

PRIOR FILING DATE: May 30, 1997

PRIOR APPLICATION NUMBER: 60/048,190

PRIOR FILING DATE: May 30, 1997

PRIOR APPLICATION NUMBER: 60/050,935

PRIOR FILING DATE: May 30, 1997

PRIOR APPLICATION NUMBER: 60/048,101

PRIOR FILING DATE: May 30, 1997

PRIOR APPLICATION NUMBER: 60/048,356

PRIOR FILING DATE: May 30, 1997

PRIOR APPLICATION NUMBER: 60/056,250

PRIOR FILING DATE: August 29, 1997

PRIOR APPLICATION NUMBER: 60/056,296

PRIOR FILING DATE: August 29, 1997

PRIOR APPLICATION NUMBER: 60/056,293

PRIOR FILING DATE: August 29, 1997

NUMBER OF SEQ ID NOS: 229

SOFTWARE: Patent in Ver. 2.0

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; SEQ ID NO 150
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (123)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-690-454-150

Query Match      8.3%; Score 70; DB 4; Length 151;
Best Local Similarity 25.5%; Pred. No. 2.1;
Matches 35; Conservative 13; Mismatches 45; Indels 44; Gaps 8;

QY 23 PGPTDDRCRPAKEEGMIN-----ISGYH-----YPPICLRAGCGCLMPAVQNNVLVEV 72
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 6 PGLTS-----ALKPQNEGLVGGGSGFSRGRHPRAGWLPQPCLLLSPTLSFPFACGLLVPS 62
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 73 PTVSPNSRFTYHVMGMSLRPRVNYLQDFSYQSLKFRP--KGKTCPK-----EIPKGSK 125
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 63 PSLLP-AVSVYHLPGRGL-----IRPAFKIKVCSKLTWCSLSPSPR 104
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QY 126 NTEVLVWEECVANSVVI 142
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Db 105 -----WRCCHGNAVAL 115
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RESULT 8
US-09-149-476-387
; Sequence 387, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/047,600
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,597
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,502
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,633
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,583
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,617
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,618
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,503
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,592
; EARLIER FILING DATE: 1997-05-23

; EARLIER APPLICATION NUMBER: 60/047,581
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,584
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,500
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,587
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,492
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,598
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,613
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,582
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,596
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,612
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,632
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,601
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,568
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,314
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,569
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,311
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,671
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,674
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,669
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,312
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,313
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,672
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,315
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,893
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,630
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,878
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,662
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,872
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,882
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,637
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,903
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,888
```



APPLICANT: SPECHT, THOMAS  
APPLICANT: HINZMANN, BERND  
APPLICANT: SCHMITT, ARMIN  
APPLICANT: PILARSKY, CHRISTIAN  
APPLICANT: DAHL, EDGAR  
APPLICANT: ROSENTHAL, ANDRE  
TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE  
FILE REFERENCE: ALBRE-12  
CURRENT APPLICATION NUMBER: US/09/673,395A  
CURRENT FILING DATE: 2000-10-17  
NUMBER OF SEQ ID NOS: 637  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 564  
LENGTH: 549  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-673-395A-564

Query Match 8.2%; Score 69; DB 4; Length 549;  
Best Local Similarity 20.1%; Pred. No. 17;  
Matches 33; Conservative 25; Mismatches 70; Indels 36; Gaps 4;

Qy 2 VPTWMDNPIEVVNDVNVVPGTDDRC-----PAKPEEGMMINISIGYHYP 51  
Db 223 VRPLATLSYASDLNGSSIVSSIEFDFDCDFAIAGVTKIKVYEYDTVIQDAVDIHP- 281  
Qy 52 ICLGRAPCLMPAVQWLVNVEPTVSPNSRETYH--NVSGMSLPRVNYLQDFSYQBSLKF 109  
Db 282 -----ENEMTCSKISCSISWSYHKNLLASDYEGTVILMDGFTGORSKY 327  
Qy 110 RPKGKTC-----PKPKGSKNTEVLVWEECVANSVILQ 144  
Db 328 QEHKRCWSVDFNLMDPKLLASGDDAKVKLWSTNLDNSVASIE 371

RESULT 11  
US-09-198-119C-45  
Sequence 45; Application US/09/98119C  
Patent No. 6417428  
GENERAL INFORMATION:  
APPLICANT: Thomasow, Michael  
APPLICANT: Stockinger, Eric  
APPLICANT: Jaglo-Otosen, Kirsten  
APPLICANT: Gilmour, Sarah  
APPLICANT: Zarka, Daniel  
APPLICANT: Jiang, Cai-Zhong  
TITLE OF INVENTION: Plant Having Altered Environmental Stress Tolerance  
FILE REFERENCE: 19117.713 Seg List  
CURRENT APPLICATION NUMBER: US/09/198,119C  
CURRENT FILING DATE: 1998-11-23  
PRIOR APPLICATION NUMBER: US 08/706,270  
PRIOR FILING DATE: 1998-09-04  
PRIOR APPLICATION NUMBER: US 09/018,233  
PRIOR FILING DATE: 1998-02-03  
PRIOR APPLICATION NUMBER: US 09/017,816  
PRIOR FILING DATE: 1998-02-03  
PRIOR APPLICATION NUMBER: US 09/018,235  
PRIOR FILING DATE: 1998-02-03  
PRIOR APPLICATION NUMBER: US 09/017,575  
PRIOR FILING DATE: 1998-02-03  
PRIOR APPLICATION NUMBER: US 09/018,227  
PRIOR FILING DATE: 1998-02-03  
PRIOR APPLICATION NUMBER: US 09/018,234  
NUMBER OF SEQ ID NOS: 95  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 45  
LENGTH: 142  
TYPE: PRT  
ORGANISM: Brassica juncea  
FEATURE:  
OTHER INFORMATION: bJCBF4-PEP  
US-09-198-119C-45

Query Match 8.1%; Score 68; DB 4; Length 142;  
Best Local Similarity 29.1%; Pred. No. 3.3;  
Matches 25; Conservative 10; Mismatches 29; Indels 22; Gaps 4;

Qy 68 WLVEPTVSPNSRFTYHVMVSGMSLRPR---VNYLQDFSYQBSLKFPRKGTCTCPKEIPKGS 124  
Db 29 WLGIPTTVEAAR--AHDVAALALGRSACLNFA-----AWCLRPSTCPKEIQKAA 81  
Qy 125 KNTVELVWEECVANSVILQNNFET 150  
Db 82 -----AFAAMAFQNEETAT 95

RESULT 12  
US-09-252-991A-30350  
Sequence 30350; Application US/09252991A  
Patent No. 8551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
CURRENT APPLICATION NUMBER: 107196.136  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 30350  
LENGTH: 268  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-30350

Query Match 8.1%; Score 68; DB 4; Length 268;  
Best Local Similarity 21.5%; Pred. No. 8.2;  
Matches 26; Conservative 14; Mismatches 37; Indels 44; Gaps 3;

Qy 11 PIEVYVNDVNVVPGTDDRCAPKPEEGMMINISIGYHYPICLGRAPCLMPAVQWLV 70  
Db 89 PFQVFLS-----ADDSTPAKLEGEIV----- 111  
Qy 71 EVPTVSPNSRFTYHVMVSGMSLRPRVNYLQ-DFSYQBSLKFPRKGTCTCPKEIPKGSKNTEV 129  
Db 112 -----PGSRFTYAIGTLALWSFKAGYVDKAGEVLKSGSFRHLSTIANPKTAPYGLAATQA 165  
Qy 130 L 130  
Db 166 M 166

RESULT 13  
US-08-857-076-99  
Sequence 99; Application US/08857076C  
Patent No. 6225120  
GENERAL INFORMATION:  
APPLICANT: Ruvkun, Gary  
APPLICANT: Kimura, Koutarou  
APPLICANT: Patterson, Garth  
APPLICANT: OGG, Scott  
APPLICANT: Paradis, Suzanne  
APPLICANT: Tissenbaum, Heidi  
APPLICANT: Morris, Jason  
APPLICANT: Kowek, Allison  
TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR  
FILE REFERENCE: IMPAIRED GLUCOSE TOLERANCE CONDITIONS  
FILE REFERENCE: 00786/351001  
CURRENT APPLICATION NUMBER: US/08/857,076C  
CURRENT FILING DATE: 1997-05-15  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 99
; LENGTH: 473
; TYPE: PR1
; ORGANISM: Homo sapiens
US-08-857-076-99

Query Match
Best Local Similarity 8.0%; Score 67.5; DB 3; Length 473;
Matches 27; Conservative 13; Mismatches 31; Indels 17; Gaps 4;

QY 50 PPTCLGRAPCL--MPA-----VQNLVEVPTVSPNSRFTYHVMVSGMSLRPRVN 96
Db 359 PPTSSG--PGALASVASHPAHGLAPHESQLHLKGPVSHFPHPSINN--MSSSEQOH 414
QY 97 YLQDFSYQSRSLKPRPKGKCPKEIPKGS 124
Db 415 KLDFKAYEQALQSPYGSTLPASLPKGS 442

RESULT 14
US-09-080-044-7
; Sequence 7, Application US/09080044
; Patent No. 6074649
; GENERAL INFORMATION:
; APPLICANT: AUDONNET, Jean-Christophe F.
; APPLICANT: BAUDU, Philippe G.
; APPLICANT: RIVIERE, Michel A.
; TITLE OF INVENTION: RECOMBINANT VACCINE CONTAINING FELINE HERPES VIRUS TYPE
; TITLE OF INVENTION: 1, PARTICULARLY FOR TREATING FELINE INFECTIOUS
; FILE REFERENCE: PERITONITIS
; CURRENT APPLICATION NUMBER: US/09/080,044
; EARLIER FILING DATE: 1998-05-15
; EARLIER FILING DATE: 1996-11-19
; EARLIER FILING DATE: 1995-11-30
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 484
; TYPE: PR1
; ORGANISM: Feline herpesvirus 1
US-09-080-044-7

Query Match
Best Local Similarity 8.0%; Score 67.5; DB 4; Length 484;
Matches 48; Conservative 20; Mismatches 54; Indels 85; Gaps 14;

QY 3 TPVTWM--DNPIE-VYVND--SVWVPG-----PTDDRCAPKPEEGMMINISIGY 47
Db 272 TKLTWLDGKPIERQYISDTASVWIDGLITRSSVLAIPTTTDSKPD-----IRCDLEW 326
QY 48 HYPPICLGR-----APGCLMPAVQNLVEVPTVSPNSRFT----- 82
Db 327 HESFVSYKFTKSVAPDVYYP-----PTVSVTFADTRAICDVKCVPRDGISLMWKI 377
QY 83 --YHVMVSGMSL-----RPRVNYLQ---DFSQSRSLKFRPKGKTC-----PKEIPK 122
Db 378 GNYHLPKAMSADILITGPCIERPGLVNIQSMCDISETDG---PVSYTCTGTIGYPPILP- 432
QY 123 GSKNTEV-----LVWEECVANSVVIL 143
Db 433 GFYDTQVVDASPEIVSESMVSVVAVI 459

Search completed: May 5, 2004, 15:55:09
Job time : 13.75 secs

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; SEQ ID NO 99
; LENGTH: 473
; TYPE: PR1
; ORGANISM: Homo sapiens
US-08-857-076-99

Query Match
Best Local Similarity 8.0%; Score 67.5; DB 3; Length 484;
Matches 48; Conservative 20; Mismatches 54; Indels 85; Gaps 14;

QY 3 TPVTWM--DNPIE-VYVND--SVWVPG-----PTDDRCAPKPEEGMMINISIGY 47
Db 272 TKLTWLDGKPIERQYISDTASVWIDGLITRSSVLAIPTTTDSKPD-----IRCDLEW 326
QY 48 HYPPICLGR-----APGCLMPAVQNLVEVPTVSPNSRFT----- 82
Db 327 HESFVSYKFTKSVAPDVYYP-----PTVSVTFADTRAICDVKCVPRDGISLMWKI 377
QY 83 --YHVMVSGMSL-----RPRVNYLQ---DFSQSRSLKFRPKGKTC-----PKEIPK 122
Db 378 GNYHLPKAMSADILITGPCIERPGLVNIQSMCDISETDG---PVSYTCTGTIGYPPILP- 432
QY 123 GSKNTEV-----LVWEECVANSVVIL 143
Db 433 GFYDTQVVDASPEIVSESMVSVVAVI 459

RESULT 15
US-09-531-857A-7
; Sequence 7, Application US/09531857A
; Patent No. 6387376
; GENERAL INFORMATION:
; APPLICANT: AUDONNET, Jean-Christophe F.
; APPLICANT: BAUDU, Philippe G.

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